Building 9996 is a three-story structure 25 by 78 m (82 by 256 ft) that was built in 1955. The main structure is steel and concrete with brick veneer. Building 9996 is used as a tooling and material storage facility to support operations in immediately adjacent portions of Building 9212.

# **A.4.15** Building 9201-1

Building 9201-1 is a two-story structure 84 by 162 m (276 by 530 ft) built in 1955. The main structure is steel and concrete with brick veneer. Building 9201-1 is a large, general machine shop with several areas containing machining equipment and controls. Nominal storage for in-process parts and materials and offices for supervision are also provided. The building is used as a general machine shop for nonuranium metal and graphite parts.

#### A.5 WASTE MANAGEMENT ACTIVITIES

This section summarizes information for facilities used to manage the various waste streams generated at the Y-12 Plant; including LLW, mixed LLW, RCRA-hazardous waste, TSCA-regulated waste, and nonhazardous waste. Some inactive facilities that were closed recently and facilities that are expected to operate in the near future (within 3 years) are included here as well.

The majority of waste management facilities at Y-12 are operated under the EM Program, but some are managed by DP. Waste management facilities are located in buildings, or on sites, dedicated to their individual functions, or are collocated with other waste management facilities or operations. Many of the facilities are used for more than one waste stream (see Figure A.5–1).

DOE is authorized to manage radioactive waste that it generates under the *Atomic Energy Act of 1954*. LLW is generated during many plant operations including, machining operations that use stock materials such as steel, stainless steel, aluminum, depleted uranium, and other materials. DOE stores, treats, and repackages, but does not dispose of, LLW at Y-12. The majority of the LLW generated at Y-12 is otherwise uncontaminated scrap metal and machine turnings and fines. Waste treatment provides controlled conversion of waste streams generated from operations to an environmentally acceptable, or to a more efficiently handled or stored, form. This activity includes continuing O&M of facilities that treat wastewater and solid waste generated from production and production support activities. LLW at Y-12 is managed in accordance with DOE Orders (e.g., DOE O 435.1), policy, and guidance related to management of radioactive waste. Management of this waste is not directly regulated by EPA or TDEC. Waste minimization and planned treatment facilities are expected to continue reducing the magnitude of these wastes.

The TDEC Division of Solid Waste Management (DSWM) regulates management of both hazardous and non-hazardous waste streams under RCRA. The major sources of hazardous waste are plating rinsewaters, waste oil, and solvents from machining and cleaning operations; contaminated soil, soil solutions, and soil materials from RCRA closure activities; and waste contaminated with hazardous constituents from construction/demolition activities. Facilities used to store or treat RCRA-hazardous waste at Y-12 are regulated by the DSWM as authorized by the EPA. These facilities may also be used to manage mixed waste (waste that is RCRA-hazardous and radioactive). Mixed waste is generated from site development, sampling, metal preparation, fabrication, enriched and depleted uranium operations, assembly, and industrial engineering functions at Y-12. Mixed waste is put in storage awaiting treatment or disposal, treated at Y-12, or sent to another ORR facility for treatment and disposal. There are no facilities for the disposal of RCRA-hazardous or mixed waste currently in operation at Y-12. Some disposal of RCRA-hazardous and mixed wastes is done at a permitted off-site commercial facility.

Major activities that generate nonhazardous waste include construction and demolition activities that produce large volumes of non-contaminated wastes, including lumber, concrete, metal objects, and soil and roofing materials. Industrial trash is generated by daily operations throughout the Plant. These operations include janitorial services, floor sweepings in production areas, and production activities. Storage and physical treatment (e.g., shredding, compaction) of non-hazardous waste does not generally require a permit under RCRA. There are three landfills in operation for disposal of non-hazardous waste at Y-12. These disposal facilities are regulated by the TDEC DSWM.

PCB-containing waste is generated at the Y-12 Plant during spill cleanup and stabilization activities as part of ongoing O&M actions. TSCA-regulated waste that contains PCBs is managed at Y-12 in accordance with EPA regulations (40 CFR 761) and with a Federal Facilities Compliance Agreement (FFCA) for managing PCBs on the ORR (EPA, August 19, 1997). Per the FFCA between the EPA and DOE, ORR waste containing PCBs may be stored in TSCA-compliant facilities. Provisions in 40 CFR 761.65 allow storage of PCB-contaminated materials in RCRA-compliant storage facilities under certain circumstances. Therefore, TSCA-regulated waste is often collocated with RCRA-hazardous waste at Y-12.

Waste management functions are generally identified as storage, treatment, or disposal. Facilities, or waste management units, may be permitted or designated for one or more waste stream and function. The following description of waste management facilities at Y-12 are grouped by functional program area and focus on facilities currently available for waste management at Y-12.

### A.5.1 Waste Storage at Y-12

The following text and Table A.5.1-1 (located at the end of Section A.5.1) summarize waste storage capabilities at Y-12 and are ordered by ascending building number. Information on these facilities is based on the following references: Bechtel Jacobs 2000, LMES 2000, and PAI 1996.

# A.5.1.1 Cyanide Treatment Unit

The Cyanide Treatment Facility in Building 9201-5N has a small (8 m<sup>3</sup>) storage area associated with it. This facility is described in Section 5.2.7.

# A.5.1.2 Storage for Mixed Waste Residue/Ash

Buildings 9212 and 9206 provide container storage areas for mixed waste residue or ash. A RCRA operating permit was issued on September 28, 1995 for these two units. The ash resulted from the burning of solvent-and uranium-contaminated solid wastes. The ash does not contain free liquids. Uranium-bearing solutions generated during the uranium recovery process (Building 9818) and laboratory analyses are also stored in these areas. These solutions, as well as the residue, are mixed (hazardous and radioactive) wastes and are being stored prior to further uranium recovery. Occasionally, uranium-bearing materials generated off-site may be stored in Buildings 9212 and 9206, prior to uranium recovery at Building 9212. Although a Phaseout/Deactivation Program Management Plan has been approved by DOE for Building 9206, and the recovery operations within this facility will no longer be operated, this building will continue to store hazardous and mixed waste for several years into the future.

# A.5.1.3 Building 9212 Tank Farm

Building 9212 Tank Farm, a RCRA permit-by-rule facility, has never been placed in operation, but there are future plans to do so when Enriched Uranium Operations are restarted. The facility consists of three dikes

containing four 37,854 L (10,000 gal) stainless-steel tanks that will eventually be used to collect nitrate waste from Building 9818 operations before being transferred to the West End Tank Farm (WETF).

# A.5.1.4 Liquid Storage Facility

The Liquid Storage Facility (Building 9416-35) of the Disposal Area Remedial Actions (DARA) Liquid Storage Treatment Unit is a hazardous and mixed waste storage and pretreatment facility built during the Bear Creek Burial Ground closure activities. It is located in Bear Creek Valley approximately 3 km (2 mi) west of Y-12, and operates under RCRA permit-by-rule. It collects, stores, and pre-treats groundwater and other wastewater received from the seep collection lift station, the DARA Solid Storage Facility, tankers, polytanks, and the diked area rainfall accumulation. Feed streams may contain oil contaminated with PCBs, VOCs, non-VOCs, and heavy metals. Most equipment is in an outdoor, containment area and includes: two 284,000 L (75,000 gal) bulk water storage tanks; a 22,700 L (6,000 gal) oil storage tank; gravity separator; two filtering units; composite monitoring station; and tanker transfer station. Collected liquids are pre-treated by traveling through the gravity separator, filters, and composite monitoring station prior to entering bulk storage tanks. The wastewater is then transferred by tanker to the Groundwater Treatment Facility for further treatment.

# A.5.1.5 Containerized Waste Storage Area

The Containerized Waste Storage Area (Buildings 9500-120, 9500-121, and 9500-149) consists of three concrete pads covering approximately 2,320 m² (24,800 ft²). An impermeable dike for spill containment surrounds each pad. The area was previously RCRA-permitted and closed. It is currently being used for LLW storage.

#### A.5.1.6 PCB and RCRA Hazardous Drum Storage Facility

Building 9720-9 is a  $1161 \text{ m}^2$  ( $12,500 \text{ ft}^2$ ), single-story, prefabricated metal building with slab on grade built in 1955. The facility provides a drum storage area for mixed and PCB waste, including an area for flammable waste. The building is used to store both RCRA and PCB mixed waste.

#### A.5.1.7 Container Storage Facility

Building 9720-12, a Container Storage Facility, also called the LLW Storage Areas, provides storage for mixed (hazardous and radioactive) waste residue, ash, and combustibles. It also contains some classified waste. A RCRA operating permit was issued on September 28, 1995. The ash is produced from burning solvent- and uranium-contaminated wastes. Unburned solvent- and uranium-contaminated solid wastes are also stored in Building 9720-12. The waste at Building 9720-12 contains no free liquids and is typically generated during the uranium recovery process. Some of this waste is also stored in Buildings 9212 and 9206, as described above.

### A.5.1.8 Classified Waste Storage Facility

The Classified Waste Storage Facility (Building 9720-25) is a 1635 m<sup>2</sup> (17,600 ft<sup>2</sup>), single-story building with masonry-bearing walls and a precast concrete roof system built in 1962. It provides storage for PCB-waste, LLW and mixed LLW, which is classified for national security purposes under provisions of the *Atomic Energy Act*. A RCRA operating permit was issued on September 28, 1995. The facility meets Y-12 Plant security requirements for classified waste management and guidelines for the management of LLW and mixed LLW.

# A.5.1.9 PCB Storage Facility

The PCB Storage Facility (Building 9720-28) provides storage capability for PCB waste, primarily PCB-containing ballasts. Building 9720-28 is a 335 m<sup>2</sup> (3,600 ft<sup>2</sup>), single-story building with masonry-bearing walls and a structural steel roof built in 1984.

# A.5.1.10 RCRA and Mixed Waste Staging and Storage Facility

The RCRA Staging and Storage Facility (Building 9720-31) is a 610-m² (6,571 ft²), single-story building with masonry-bearing walls and a precast concrete roof system built in 1986. A RCRA permit was issued on September 28, 1995. Solid, liquid, and sludge wastes are prepared for off-site shipment at this facility. The facility consists of seven storage rooms and seven staging rooms, each with a separate ventilation system. The staging rooms house small containers that are packed with compatible materials and shipped. The storage rooms hold larger containers, such as 208 L (55 gal) drums.

# A.5.1.11 Production Waste Storage Facility

The Production Waste Storage Facility (also a Container Storage Area, Building 9720-32) has not yet been used for storage, but future use is planned. The building is separated into two areas, a smaller one for ignitable RCRA waste, and a larger area for non-ignitable waste. Both areas have curbing and may be used for containerized liquids if stored on self-containing pallets. A RCRA operating permit for the facility was issued September 3, 1996 for storage of hazardous and mixed waste. This facility houses the nondestructive assay equipment for Y-12 and has a design capacity for storage of 616,968 gal (2,335 m<sup>3</sup>).

# A.5.1.12 Low-Level Waste Storage Pad

The Low-Level Waste Storage Pad is located in the Sludge Handling Facility (Building 9720-44) which originally provided water filtration and sludge dewatering to support a storm sewer cleaning and relining project. The facility is currently being used to store containers of LLW sludge.

# A.5.1.13 Liquid Organic Solvent Storage Facility

The Liquid Organic Waste Storage Facility (Building 9720-45, OD-10) is a 209 m² (2,250 ft²) single-story pavilion with metal posts and roof panels, built in 1987. A RCRA permit was issued on September 30, 1994. It contains four 24,600 L (6,500 gal) and two 11,400 L (3,000 gal) stainless-steel tanks for storage of ignitable non-reactive liquids, including those contaminated with PCBs and uranium. In addition, a diked and covered storage area provides space for 40,000 L (10,600 gal) of containerized waste. The facility is set up for segregating various spent solvents for collection and storage. Major solvent waste streams are transferred to tanks until final disposition.

# A.5.1.14 RCRA and PCB Container Storage Area

The RCRA and PCB Container Storage Area (Building 9720-58) is a 390 m² (4,200 ft²), single-story, prefabricated metal building with metal wall panels built in 1987. It holds a RCRA permit issued on September 28, 1995. It is a warehouse facility used for staging prior to treatment or disposal of PCB- and RCRA- contaminated equipment (e.g., transformers, capacitors, and electrical switchgear) and non-reactive, non-ignitable RCRA, mixed, and PCB waste.

# A.5.1.15 Classified Container Storage Facility

The Classified Container Storage Facility (Building 9720-59, also a Production Waste Storage Facility) is a 1,403 m<sup>2</sup> (15,105 ft<sup>2</sup>), single-story, prefabricated metal building with metal wall panels. Building 9720-59 was issued a RCRA permit on September 3, 1995 and stores both RCRA and PCB wastes.

# A.5.1.16 Disposal Area Remedial Action Solid Storage Facility

The DARA Solid Storage Facility (Building 9 720-60) provides 1,625 m² (17,500 ft²) of storage space for PCB-, RCRA-, and uranium-contaminated soil. The facility has a synthetic liner for leachate collection and a leak detection system. Collected leachate is transferred to the Liquid Storage Facility for pretreatment. The DARA Solid Storage Facility is an interim status facility under RCRA, but is now being managed through the CERCLA process. No additional wastes are being added to the facility.

# A.5.1.17 OD7 Waste Oil Storage Tank Area

Building 9811-1, houses three areas for storage of RCRA liquids (OD7, OD8, and OD9), and is an  $81 \, \text{m}^2$  (874 ft²) single-story prefabricated metal building with metal wall panels, built in 1986. OD7 contains a diked storage area for tanks (permitted September 30, 1994). The OD7 contains four  $114,000 \, \text{L}$  (30,000 gal) tanks, two  $37,900 \, \text{L}$  (10,000 gal) tanks, and associated piping and pumps. The OD7 facility is now inactive and there are no plans to use it in the future.

### A.5.1.18 OD8 Waste Oil Solvent Drum Storage Facility

The Waste Oil Solvent Drum Storage Facility (Building 9811-1, OD8) was issued a RCRA permit on September 28, 1995. It has a capacity for 750, 208 L (55 gal) drums and a smaller number of Tuff tanks. RCRA waste oil/solvent mixtures containing various concentrations of chlorinated and nonchlorinated hydrocarbon solvents, uranium, trace PCBs, and water for specific chemical constituents are stored at OD8 in 208 L (55 gal) drums and 1,140 L (300 gal) Tuff tanks.

# A.5.1.19 OD9 Waste Oil/Solvent Storage Facility

The Waste Oil/Solvent Storage Facility (Building 9811-1, OD9) is a RCRA-permitted (September 30, 1994) storage facility that houses LLW, mixed LLW, and hazardous waste, including PCBs. It consists of a diked area supporting five 151,000 L (40,000 gal) tanks, a tanker transfer station with five centrifugal transfer pumps, and a drum storage area. Four tanks house PCB and RCRA wastes contaminated with uranium. A fifth tank is empty. A diked and covered pad furnishes space for 33 m³ (1,165 ft³) of containerized waste. The diked area contains additional space for a sixth 151,000 L (40,000 gal) tank.

#### A.5.1.20 Organic Handling Unit

The Organic Handling Unit in Building 9815 has a small (8 m<sup>3</sup>) storage area associated with it. This facility is described in Section 5.2.6.

# A.5.1.21 Depleted Uranium Oxide Storage Vaults I and II

The Depleted Uranium Oxide Storage Vaults I and II (Buildings 9825-1 and -2 oxide vaults) are located on Chestnut Ridge northeast of Building 9213. The vaults are constructed of reinforced concrete and provide a retrievable storage repository for uranium oxide, uranium metal, and a blended mixture of uranium sawfines

and oxide. The vaults contain a negative pressure exhaust system that operates during material entry. The exhaust is filtered and monitored prior to its release to the atmosphere. The facility uses forklift trucks, electric hoists, and a motorized drum dumper. Waste is no longer accepted in the vaults. Building 9809-1 is also being used as storage for drummed, depleted uranium oxide materials; it is a 111 m<sup>2</sup> (1,200 ft<sup>2</sup>), single-story building with masonry-bearing walls and a structural steel roof system built in 1990.

#### A.5.1.22 West Tank Farm

The West Tank Farm provides storage for mixed and LLW sludge and is associated with the WETF. It operates under RCRA permit-by-rule and has five 1.89 million L (500,000 gal) tanks that provide storage for mixed waste and three 378,541 L (100,000 gal) tanks that provide storage for radioactively contaminated calcium carbonate sludge generated in the WETF treatment processes. The WETF is described in Section 5.2.5.

### A.5.1.23 Oil Landfarm Soil Storage Facility

The Oil Landfarm Soil Storage Facility is a RCRA-interim status facility containing approximately 1,377 m<sup>3</sup> (14,832 ft<sup>3</sup>) of soil contaminated with PCBs and volatile organics (DOE 1993). The soil was excavated from the Oil Landfarm and Tributary 7 in 1989. The soil is contained in a covered, double-lined concrete dike with a leak-detection system. The leak-detection system will soon be modified to enhance detection capabilities.

# A.5.1.24 Old Salvage Yard

The Old Salvage Yard, located at the west end of Y-12, contains both low-level uranium-contaminated and non-radioactive scrap metal. Most scrap currently sent to this area is contaminated. The Contaminated Scrap Metal Storage is an area within the Old Salvage Yard that is used to store uranium-contaminated scrap metal Contaminated scrap is placed in approved containers and eventually will be transferred to the aboveground storage pads or shipped off site for disposal. Non-contaminated scrap is sold when allowed.

### A.5.1.25 Salvage Yard

The Salvage Yard is used for the staging and public sale of nonhazardous, non-radioactive scrap metal that has been approved by DOE for release. It consists of a 3.2 enclosed hectare (ha) (8 acres); 0.4 ha (1 acre) is paved. The New Salvage Yard provides accumulation and sorting space for the scrap metal. This facility is located on the north side of Bear Creek Road, near the Bear Creek Burial Grounds.

TABLE A.5.1–1.—Storage Capabilities for Hazardous, Low-Level and Mixed Low-Level Waste at Y-12 [Page 1 of 4]

Facility Number/Name <sup>a</sup>	Waste Streams Stored <sup>b</sup>	Capacity <sup>c</sup>	Comment
Building 9201-5N, Cyanide Treatment Facility	Cyanide spent plating batches, mixed LLW	8 m³ 2,200 gal	RCRA permit issued September 28, 1995. Small Storage area. Primarily treatment facility for hazardous and mixed wastes (Table A.5.2-1 and Section A.5.2.7).
Building 9206, Container Storage Area	LLW and mixed LLW consisting of uranium-contaminated liquid, residue, and ash	15 m³ 3,975 gal	RCRA permit issued September 28, 1995
Building 9212, Container Storage Area	LLW and mixed LLW consisting of uranium-contaminated liquid, residue, and ash	15 m³ 3,814 gal	RCRA permit issued September 28, 1995. Hazardous waste will continue to be stored here for several years into the future
Building 9212, Tank Farm	Nitrate-bearing wastewater also containing hazardous and radioactive constituents	151 m³ 40,000 gal	RCRA permit-by-rule. Not yet in operation, but use is planned
Building 9416-35, Liquid Storage Facility	Liquid hazardous and mixed LLW	416 m <sup>3</sup>	RCRA permit-by-rule. Also a pre-treatment unit (Table A.5.2-1). Provides temporary storage before treatment
Buildings 9500-120, 9500-121, and 9500-149 Containerized Waste Storage Area	LLW planned for Above Grade Storage	632 m³ 8443,060 gal 134,640 lgal	Three concrete pads. Formerly RCRA permitted, but now RCRA closed. No permit required
Building 9720-9, PCB and RCRA Hazardous Drum Storage Facility	PCB/RCRA/radioactive waste	1,404 m³ 370,800 gal 202,770 lgal	RCRA permit issued September 28, 1995
Building 9720-12, Container Storage Facility aka Low-level Waste Storage Areas	Solid LLW and mixed LLW	123 m³ 32,500 gal	RCRA permit issued September 28, 1995. Also contains hazardous and nonhazardous classified waste
Building 9720-25, Classified Waste Storage Area	Classified solid LLW and mixed LLW	198 m³ 32,470 gal 19,770 lgal	RCRA permit issued September 28, 1995

TABLE A.5.1–1.—Storage Capabilities for Hazardous, Low-Level and Mixed Low-Level Waste at Y-12 [Page 2 of 4]

Facility Number/Name <sup>a</sup>	Waste Streams Stored <sup>b</sup>	Capacity <sup>c</sup>	Comment
Building 9720-28, PCB Storage Facility aka Waste Materials Preparation Facility	PCB waste	m³ NA	Permit not required. Managed per 40 CFR 761 and EPA Compliance Agreement
Building 9720-31, RCRAand Mixed Waste Staging and Storage Facility	PCB/RCRA/radioactive waste	170 m³ 177,630 gal 101,990 lgal	RCRA permit issued September 28, 1995
Building 9720-32, Container Storage Area/Production Waste Storage Facility	RCRA ignitable and hazardous waste	$2,335 \mathrm{m}^3$ 616,968 gal	RCRA permit issued September 3, 1996. Has not yet been used, but use is planned
Building 9720-44, LLW Storage Pad	LLW sludge	NA	Building was formerly used for sludge dewatering project and now is used only for storage of low-level sludge.
Building 9720-45, OD-10, Liquid Organic Solvent Storage Facility	Liquid and solid mixed LLW. Waste oil, combustible and flammable liquids. Ignitable, non-reactive and radioactive waste	198 m³ 32,000 gal 10,560 gal	RCRA permit issued September 30, 1994
Building 9720-58, RCRA and PCB Container Storage Area	PCB-contaminated equipment, RCRA mixed waste	1,130 m³ 177,630 gal 120,860 lgal	RCRA permit issued September 28, 1995
Building 9720-59, Classified Waste (Container) Storage Area	PCB/RCRA/radioactive waste	$1,090 \mathrm{m}^3$ $287,943 \mathrm{gal}$	RCRA permit issued September 3, 1996
Building 9720-60, DARA Solid Storage Facility	Solid mixed LLW including PCB-contaminated waste	3,058 m³ 807,840 gal	RCRA permit application submitted June 1993. RCRA interim status. Facility full as of August 1994. Contains contaminated soil. Currently within the Environmental Restoration Program

TABLE A.5.1–1.—Storage Capabilities for Hazardous, Low-Level and Mixed Low-Level Waste at Y-12 [Page 3 of 4]

Facility Number/Name <sup>a</sup>	Waste Streams Stored <sup>b</sup>	Capacity <sup>c</sup>	Comment
Building 9811-1, OD-7, Waste Oil Storage Tank Area	RCRA organics and mixed LLW contaminated with Beryllium	$530 \mathrm{m}^3$ 140,000 gal	RCRA permit issued September 30, 1994. Inactive unit, not currently planned for future use
Building 9811-1, OD-8, RCRA Storage Facility Waste Oil Solvent Drum Storage Facility	Liquid and solid hazardous waste, LLW and mixed LLW	723 m³ 102,100 gal 89,050 lgal	RCRA permit issued September 28, 1995
Building 9811-8, OD-9, Waste Oil/Solvent Storage Facility	LLW, Liquid mixed LLW (including PCBs), and hazardous waste. Non-ignitible, non-reactive oils/solvents, some with chlorinated organics	790 m³ 200,000 gal 8,800 gal	RCRA permit issued September 30, 1994. Site includes five storage tanks. Includes 33 m³ of storage for drums
Building 9815, Organic Handling Unit	Liquid hazardous waste, solvents and mixtures containing RCRA hazardous constituents	$8 \text{ m}^3$ 2,500 gal	Storage space added to permit for treatment unit (Table A.5.2-1 and Sect. A.5.2.6) on November 19, 1997
Depleted Uranium Storage Vaults I and II (Buildings 9825-1 and 2 oxide vault) and Building 9809	Solid LLW (depleted uranium oxides and sawfines)	1,020 m <sup>3</sup>	Two vaults of reinforced concrete no longer accept waste. Air permit for vaults. Building 9809 takes containerized depleted uranium oxide materials
West Tank Farm	Mixed LLW (sludge)/LLW sludge	10,600 m³ 2,800,000 gal	RCRA permit by rule. Storage associated with WETF (Table A.5.2-1 and Sect. A.5.2.5)
Building 9830-2 through 7, Abovegrade Low-level Waste Storage Facility	Solid LLW	$7,130 \text{ m}^3$	Six aboveground pads for LLW awaiting completion of EMWMF. No permit required
Oil Landfarm Soil Storage Facility (Containment Pad)	Solid mixed waste contaminated with PCBs and volatile organics (soils excavated from Oil Landfarm closure)	536 m³ 115,117 gal	RCRA application submitted June 1993. Interim status. No new wastes being stored

TABLE A.5.1–1.—Storage Capabilities for Hazardous, Low-Level and Mixed Low-Level Waste at Y-12 [Page 4 of 4]

Facility Number/Name <sup>a</sup>	Waste Streams Stored <sup>b</sup>	Capacity <sup>c</sup>	Comment
H-1 Salvage Yard, Contaminated Scrap Metal Storage Area (Old Salvage Yard)	Solid LLW (uranium-contaminated scrap)	4,740 m <sup>3</sup>	No permit required. Scrap is containerized for later transfer to aboveground storage pads
New Salvage Yard	Non-hazardous, non-radioactive scrap metal	1 ac paved 8 ac enclosed	Accumulation area for scrap metal that is sold to the public. May not be classified as waste by regulatory definition, but included here for informational purpose

<sup>&</sup>lt;sup>a</sup> Facility names may vary slightly between references. Both names are presented in a few instances to avoid confusion.

Notes: EMWMF - Environmental Management Waste Management Facility; DARA - Disposal Area Remedial Action; Sources: Bechtel Jacobs 2000, LMES 2000, PAI 1996.

b The term "solid" as used here describes physical state, not a regulatory classification.

<sup>&</sup>lt;sup>c</sup> Capacity (m³ - cubic meter; gal- gallons; Igal - liquid gallons) refers to design capacity as indicated in a database of RCRA interim status and active units at the Y-12 Plant that is maintained and used for RCRA annual reporting. The database design capacities are in gallons and have been converted to m³ for comparability with other waste information. Non-RCRA unit capacities were obtained from other sources, primarily DOE, 1996.

#### A.5.2 Treatment of Waste at Y-12

Table A.5.2-1 (located at the end of Section A.5.2) summarizes waste treatment capabilities at Y-12 by facility. Information on these facilities is based on the following references: Bechtel Jacobs 2000b, DOE 1995a, LMES 2000b, and PAI 1996.

### A.5.2.1 Central Pollution Control Facility

The Central Pollution Control Facility (Building 9623), a 1,858 m² ( 20,000 ft²) multi-story, structural-steel building with masonry walls was built in 1985. The Central Pollution Control Facility operates under RCRA permit-by-rule and an NPDES permit issued in April 28, 1995. It is the primary facility for treatment of non-nitrated waste. It receives wastes that are acidic or caustic, oily mop water containing beryllium, thorium, uranium, emulsifiers, and cleansers. It also receives waste already treated at other Y-12 facilities. The Central Pollution Control Facility provides both physical and chemical processing, including oil/water separation, neutralization, precipitation, coagulation, flocculation, carbon adsorption, decanting, and filtration. Treated water is discharged to EFPC through an NPDES monitoring station. Sludge from the treatment processes is transferred to the WETF. Spent carbon cartridges and filters are sent to ETTP for storage.

#### A.5.2.2 Plating Rinsewater Treatment Facility

The Plating Rinsewater Treatment Facility treats dilute, non-nitrate bearing, plating rinsewater contaminated primarily with chromium, copper, nickel, and zinc. In addition, the facility can treat cyanide-bearing wastes and remove chlorinated hydrocarbons. Currently, the facility is used less frequently because the Plating Shop (Building 9401-2) that formerly produced most of Y-12's rinsewater has been deactivated. The facility's neutralization, equalization, and cyanide destruction equipment are kept outdoors in a diked basin. The remainder of the facility process is located in Building 9623 with the Central Pollution Control Facility. Rinsewater may be received in tankers, polytanks, or in any acceptable waste shipping container. The Plating Rinsewater Treatment Facility performs the following treatment operations: pH adjustment, flow equalization, heavy metal removal, degassification, and clarification. After the clarification operation, the rinsewater is transferred to the Central Pollution Control Facility. Treated rinsewater is sometimes recycled for use as make-up water for Central Pollution Control Facility processes. Sludge from the clarification process is transferred to the Central Pollution Control Facility and then taken to the West Tank Farm for interim storage.

#### A.5.2.3 Waste Coolant Processing Facility

The Waste Coolant Process Facility (Building 9983-78) treats machine coolant waste and mop water from machining operations containing heavy metals, including uranium compounds and uranium metallic fines. The equipment and controls are located outside. Gravity feed is used to separate oils and water. The waste oil is then transferred to OD9 (Building 9811-1), or containerized and stored, and the wastewater flows into an extended aerator reactor. Sludge and sediment from the oils are drummed and stored. Sludge from the wastewater treated in the reactor is dried, drummed and sent to ETTP mixed waste storage. The treated wastewater is transferred to the Central Pollution Control Facility for further treatment and then discharged into EFPC.

# A.5.2.4 Central Mercury Treatment System

The Central Mercury Treatment System (CMTS) is designed to treat mercury-contaminated sump water from former mercury use building. The CMTS was installed as part of the Y-12 Plant's Integrated Mercury Strategy Program to achieve compliance with regulations and guidance addressing mercury contamination

in EFPC. Sump water from Buildings 9201-5, 9201-4, and 9204-4 is treated at the CMTS. The CMTS is located at the Central Pollution Control Facility. A new outfall (Outfall 551) is the discharge point where treated wastewater is discharged in conformance to NPDES monitoring guidelines.

Mercury-contaminated wastewater is pumped from building sumps located in Buildings 9201-4 and 9201-5 to the 2100-U tank, and into a ground equalization tank located just south of Building 9201-4. From the 2199-U tank, the wastewater is pumped to the Central Pollution Control Facility for treatment and discharge. Mercury-contaminated sump water is also accumulated in a Tuff tank located at Building 9204-4 and is periodically transferred to the Central Pollution Control Facility for treatment at the CMTS.

The CMTS process consists of equalization capacity provided by the 2100-U tank and F-901 tank, influent filtration, granular-activated carbon adsorption, neutralization, and carbon dewatering. The system is designed to treat a maximum of 50 gpm.

#### A.5.2.5 West End Treatment Facility

The WETF (Building 9616-7) treats mixed-LLW and LLW-contaminated wastewater generated by Y-12 production operations and other DOE-ORO meeting the facility waste acceptance criteria and operating under RCRA permit-by-rule. Treatment methods include hydroxide precipitation of metals, sludge settling and decanting, biodenitrification, bio-oxidation, pH adjustment, degasification, coagulation, flocculation, clarification, filtration, and carbon adsorption. Wastewaters are primarily nitrate-bearing and include the following: nitric acid wastes, mixed acid wastes, waste coolant solutions, mop water, and caustic wastes. Wastes are received at the WETF in 18,927-L (5,000-gal) tankers, 1136-L (300-gal) polytanks, drums, carboys, and small bottles. Detailed waste characterization documentation and jar tests are used to determine the treatment scheme for wastewater shipments. Treatment at WETF is performed in three processes: (1) Head End Treatment, (2) West Tank Farm biological treatment, and (3) Effluent Polishing. The Head End Treatment Process consists of waste receiving, hydroxide precipitation of heavy metals, sludge settling, and decanting. Biological treatment in the West Tank Farm consists of biodenitrification, then bio-oxidation.

The Effluent Polishing System consists of pH adjustment, degasification, coagulation, flocculation, clarification, filtration, carbon adsorption, and effluent discharge to the EFPC through an NPDES monitoring station.

Legacy mixed-LLW treatment sludges are presently being removed from sludge storage tanks at the West Tank Farm for off-site disposal. Currently generated mixed-LLW and LLW treatment sludges are being accumulated and concentrated for final characterization and disposal. Other treatment residuals, such as spent carbon and personal protective equipment, are being sent for immediate off-site disposal where feasible or otherwise characterized for on-site treatment or disposal.

#### A.5.2.6 Organic Handling Unit for Mixed Waste

The Organic Handling Unit (Building 9815) has replaced the Uranium Treatment Unit that was located on the east side of Building 9206. (Note: The Uranium Treatment Unit closure certification was accepted by the State of Tennessee on July 24, 1996, without comments.) The Organic Handling Unit provides storage and treatment of organic solutions containing enriched uranium. The uranium level in the waste material arriving at the Organic Handling Unit is typically less than 400 ppm. These wastes are characterized as mixed hazardous and radioactive wastes. The facility uses an assay reduction process to dilute the <sup>235</sup>U isotope with <sup>238</sup>U isotope in such a manner that they cannot be easily separated chemically or physically. This is accomplished by first mixing depleted uranyl nitrate with the organic solution and then neutralizing the organic solution by adding sodium hydroxide or other acceptable material. Since uranyl nitrate solution is not readily soluble in most organic solutions, "extractant" may be added to the organic solution.

TABLE A.5.2–1.—Treatment Capabilities at Y-12 for Hazardous, Mixed Low-Level, and Low-Level Waste [Page 1 of 4]

Treatment Unit	Treatment Method(s)	Input Streams	Output Streams	Capacity <sup>a</sup> (m³/yr)	Comment
Building 9623, Central Pollution Control Facility (CPCF)	Neutralization, passive and press filtration, carbon adsorption, oil/water separation, flocculation, clarification, and sludge decanting	Non-nitrate liquids containing LLW, mixed LLW, and hazardous waste	Treated water discharged to EFPC, solids to WETF, and spent carbon to storage at ETTP	10,200	NPDES permit issued April 28, 1995. RCRA permit-by- rule. Utilization approximately 15% of capacity
Building 9623, Plating Rinsewater Treatment Facility	Cyanide destruction, neutralization, flow equalization, electrochemical reduction, degassification, coagulation	Non-nitrate plating wastewater containing industrial waste and RCRA heavy metals. Can also treat CN.	Treated wastewater used as process water for CPCF and discharged to EFPC, sludge to CPCF for treatment and then to WETF	30,283	RCRA permit-by-rule. Utilization rate approximately 2.5% (due to recent decrease in plating operations)
Building 9983-78, Waste Coolant Processing Facility (WCPF)	Oil skimming, aerobic biodegradation, clarification, sludge drying/blending	Liquid LLW and mixed LLW containing < 200 ppm nitrate	Treated water to CPCF, oil to Organic Liquid Storage Area, solids to mixed LLW storage at ETTP	1,363	RCRA permit-by-rule. Utilization approximately 71% of capacity
Building 9623, Central Mercury Treatment System (CMTS)	Filtration, clarification, carbon adsorption, neutralization, carbon dewatering	Mercury-contaminated sump water with low turbidity	Treated water transferred to CPCF, then discharged to EFPC, solids to Y-12 landfill	50 gal/min	Mercury is removed from groundwater pumped from former mercury-use buildings 9201-4, 9201-5, and 9204-4. Part of RMPE program to decrease mercury loading in EFPC

TABLE A.5.2-1.—Treatment Capabilities at Y-12 for Hazardous, Mixed Low-Level, and Low-Level Waste [Page 2 of 4]

Treatment Unit	Treatment Method(s)	Input Streams	Output Streams	Capacity <sup>a</sup> (m³/yr)	Comment
Building 9616-7, WETF	Head End Treatment System (HETS): precipitation of metals, sludge settling and decanting; Tank Farm 1 and 2 (WTF bioreactors): biodenitrification, bio- oxidation; Effluent Polishing System (EPS): flocculation, clarification and filtration	Nitrate-bearing wastewater (up to 80%) and sludge containing LLW, mixed LLW, and RCRA hazardous and sanitary/industrial waste. Also small quantity of magnesium chips	Treated water discharged to EFPC. Solid/sludge to Tank Farm for storage	10,221	NPDES permit issued April 28, 1995. RCRA permit-by-rule. Utilization rate approximately 10% for wastewater. Processes approximately nine, 55 gal drums magnesium chips per year.
Building 9815, Organic Handling Unit	Mixing depleted uranyl nitrate with organic solution, neutralization	Liquid LLW and mixed LLW consisting of organic solutions containing enriched uranium	Neutralized wastewater goes to WETF	500 gal/day	RCRA permit issued September 28, 1995. Also has space for 9m³ (2,500 gal) mixed waste storage
Building 9201-5N, Cyanide Treatment Facility (CTF)	Chemical oxidation (alkaline chlorination), pH adjustment	Liquid mixed LLW and hazardous waste primarily from cyanide spent plating bathes (10 - 60,000 ppm CN and trace heavy metals)	Treated water (< 10 ppm CN) to WETF	185 to 195 gal/day	RCRA permit issued September 28, 1995. Also storage for 8m³ (2,200 gal) mixed waste. Air discharge permit. Total capacity assumes operation 250 days/yr, 8 hr/day. 1996 utilization rate at approximately 50%
Building 9818, Biodenitrification Unit	Neutralization, pH adjustment, nitrate removal	Liquid mixed LLW (nitrate solutions from enriched uranium recovery-Building 9212)	Biosludge to West Tank Farm Wastewater to WETF	2,100	RCRA permit-by-rule

TABLE A.5.2-1.—Treatment Capabilities at Y-12 for Hazardous, Mixed Low-Level, and Low-Level Waste [Page 3 of 4]

Treatment Unit	Treatment Method(s)	Input Streams	Output Streams	Capacity <sup>a</sup> (m <sup>3</sup> /yr)	Comment
Building 9212, Uranium Recovery Operations	Leaching, filtration, dissolution, oxidation, evaporation, extraction	Metal and organic removal from aqueous stream, aqueous neutralization, purification for recycle	All waste diverted to Biodenitrification Unit	2,100	System exempt from permitting requirements under agreement with state. Same capacity as Acid Neutralization and Recovery Facility
Building 9616-7, Groundwater Treatment Facility (GWTF)	Carbon adsorption, air stripping, precipitation and filtration (iron removal)	Liquid LLW and mixed LLW (groundwater)	Treated groundwater discharged to EFPC, spent carbon and sludge to storage and TSCA incinerator, and filter bags to storage for off-site disposal	14,480	NPDES permit April 28, 1995. RCRA permit-by-rule. Facility running at capacity during rainy season
Building 9416-35, Liquid Storage Facility	Oil/water separation by filter cartridges (pre- treatment for GWTF)	Liquid mixed LLW (leachate from certain capped burial grounds in Bear Creek Valley)	Wastewater to GWTF, oil containing PCB and some RCRA constituents to TSCA Incinerator	3,975	RCRA permit-by-rule. Facility running at capacity during rainy season. Also a storage unit (Table A.5.1-1)
Building 9201-2, East End Mercury Treatment System	Filtration, clarification, carbon adsorption	Mercury-contaminated sump water with low turbidity	Treated water discharged to EFPC, solids to Y-12 landfill	30 gal/min	Mercury is removed from groundwater pumped from former mercury-use Building 9201-2. Part of RMPE Program to decrease mercury loading in EFPC
Building 9616-9, Steam Plant Wastewater Treatment Facility	Sedimentation, neutralization, precipitation, clarification and sludge dewatering	Wastewater from Steam Plant operations, demineralizers, and coal pile runoff	Treated water discharged to EFPC sanitary sewer system, solids to Y- 12 sanitary landfill	177,914	NPDES permit. RCRA permit- by-rule. Utilization rate currently above design capacity
Building 9401-5, Uranium Chip Oxidation Facility	Thermal oxidation	Solid LLW (depleted uranium tailings)	Uranium oxide to depleted Uranium Oxide Storage Vaults	Classified	Treatment done by single drum batch

TABLE A.5.2-1.—Treatment Capabilities at Y-12 for Hazardous, Mixed Low-Level, and Low-Level Waste [Page 4 of 4]

Treatment Unit	Treatment Method(s)	Input Streams	Output Streams	Capacity <sup>a</sup> (m³/yr)	Comment
Building 9401-4, Waste Feed Preparation Facility	Compaction/ repackaging	Compactible solid LLW	Compacted solid LLW	NA	This facility is no longer in operation

a Capacity combines all input waste streams.

Notes: CMTS - Central Mercury Treatment System; CN - Cyanide; CPCF - Central Pollution Control Facility; CTF - Cyanide Treatment Facility; EPS - Effluent Polishing System; HETS - Head End Treatment System; GWTF - Groundwater Treatment Facility; RMPE Program - Reduction in Mercury Plant Effluent Program; TSCA - Toxic Substances Control Act Sources: Bechtel Jacobs 2000, LMES 2000, PAI 1996.

# A.5.2.7 Cyanide Treatment Unit

The Y-12 Cyanide Treatment Unit (located in Building 9201-5N) provides storage and treatment of LLW and mixed LLW solutions containing metallic cyanide compounds from spent plating baths and precious metal recovery operations or other areas; the unit's RCRA permit was issued on September 28, 1995. Treatment is by chemical oxidation and pH adjustment. The cyanide reduction process performed within the unit is currently performed in 208 L (55 gal) containers. After waste is treated at the Cyanide Treatment Unit, it is transferred to the WETF for further treatment, then discharged to the EFPC.

#### A.5.2.8 Biodenitrification Unit

The Biodenitrification Unit (Building 9818) has been in stand-down, but restart is anticipated. It is capable of treating nitrate-bearing, liquid-mixed LLW generated by enriched uranium recovery operations in Building 9212. The denitrification unit removes nitrates from the waste and also separates liquids and solids. The wastewater is then transferred to the WETF for further treatment, and the sludge is transferred to the West Tank Farm.

#### A.5.2.9 Uranium Recovery Operations

Uranium Recovery Operations (Building 9212) is a recovery process to increase production efficiency at Y-12. Liquid waste from the operation is transferred to the Biodenitrification Unit. The system is exempt from permitting requirements under RCRA.

### A.5.2.10 Groundwater Treatment Facility

The Groundwater Treatment Facility (Building 9616-7) treats wastewater from the Liquid Storage Facility at Y-12 and seepwater collected at ETTP and East Chestnut Ridge waste piles to remove volatile organic compounds (VOCs), non-VOCs, and iron. It is part of the DARA program to treat groundwater contaminated with LLW and mixed LLW that is collected from the Bear Creek Burial Grounds. The Groundwater Treatment Facility is located at the far west end of Y-12, in the same building as the WETF. This facility uses an air stripping operation to remove VOCs. In addition, carbon adsorption eliminates nonvolatile organics and PCBs. Precipitation and filtration are used to remove iron. After treatment, wastewater is sampled and recycled if additional processing is required. Wastewater that meets discharge specifications is pumped into the EFPC through a National Pollutant Discharge Elimination System (NPDES) monitoring station.

# A.5.2.11 Liquid Storage Facility

The Liquid Storage Facility in Building 9416-35 provides pretreatment for contaminated groundwater and other remedial action wastewater. The facility is described in Section 5.1.4.

#### A.5.2.12 East End Mercury Treatment System

The East End Mercury Treatment System (EEMTS) is designed to treat mercury-contaminated sump water from Building 9201-2, a former mercury use building constructed in the late 1940s and located in the eastern part of the Y-12 Plant on Second Street directly south of the North Portal parking lot. The EEMTS was installed as part of the Y-12 Plant's Integrated Mercury Strategy Program to achieve compliance with regulations and guidance addressing mercury contamination in EFPC. The EEMTS process consists of influent filtration, granular-activated carbon adsorption, and associated water transfer equipment. Sump water

from Building 9201-2 is treated at the EEMTS. A new outfall (Outfall 550) is the discharge point where treated water is discharged in conformance to NPDES monitoring guidelines. Mercury-contaminated wastewater is pumped from building sumps located in the basement of Building 9201-2 to the treatment unit installed on the first floor. The water is treated there and released to EFPC through the NPDES Outfall 550.

#### A.5.2.13 Steam Plant Wastewater Treatment Facility

The Steam Plant Wastewater Treatment Facility treats wastewater from Steam Plant operations, demineralizers, and coal pile runoff (MMES 1995a). Treatment processes include wastewater collection/sedimentation, neutralization, clarification, pH adjustment, and dewatering. The treatment facility uses automated processes for continuous operation. All solids generated during treatment are nonhazardous and are disposed of in the sanitary landfill. The treated effluent is monitored prior to discharge to the Oak Ridge public sewage system. The Y-12 utilities department manages this facility.

# A.5.2.14 Uranium Chip Oxidation Facility

The Uranium Chip Oxidation Facility (Building 9401-5) is a 348 m² (3,750 ft²), single-story, prefabricated building with metal wall panels built in 1987. The facility thermally oxidizes depleted and natural uranium machine chips under controlled conditions to a stable uranium oxide. Upon arrival, chips are weighed, drained of machine coolant, placed into an oxidation chamber, and ignited. The oxide is transferred into drums and transported to the uranium oxide storage vaults. The Uranium Chip Oxidation Facility is not designed to treat uranium sawfines. Hence, sawfines are currently blended with uranium oxide and placed in the oxide vaults as a short-term treatment method.

### A.5.2.15 Waste Feed Preparation Facility

The Waste Feed Preparation Facility is a 335 m² (3,600 ft²), single-story, prefabricated building with metal wall panels built in 1984 (Building 9401-4). This facility is no longer in operation. It was previously used to process and prepare solid LLW for volume reduction (compaction and repackaging) by an outside contractor or storage facility.

#### A.5.2.16 Steam Plant Ash Disposal Facility

The Steam Plant Ash Disposal Facility is used to collect, dewater, and dispose of sluiced bottom ash generated during operation of the coal-fired Y-12 Steam Plant. To comply with environmental regulations for landfill operations, it includes a leachate collection system and a transfer system to discharge the collected leachate into the Oak Ridge public sewage system. The dewatered ash is disposed of in Landfill VI.

#### A.5.3 Disposal of Waste at Y-12

On-site waste disposal facilities in operation at Y-12 are limited to industrial and construction/demolition landfills. Table A.5.3-1 (located at the end of Section A.5.3) summarizes waste disposal capabilities at Y-12. None of the landfills accept, or plan to accept, RCRA-hazardous, TSCA-regulated, or radioactive waste. Waste that contains residual radioactive materials at levels below authorized limits established in accordance with DOE Order 5400.5 may be accepted for disposal. All DOE facilities may receive materials containing residual radioactivity of any radionuclide on material surfaces provided that they are below limits specified in DOE Order 5400.5. Current waste acceptance criteria (WAC) for the landfills include a ceiling for residual radioactivity of 35 pCi/gm for total uranium on a volumetric basis. Materials containing uranium and other radioisotopes with residual levels of radioactivity below DOE authorized limits on a volumetric basis are

accepted for disposal on a case-by-case basis. DOE is now reevaluating the existing ceiling of 35 pCi/gm for total uranium for the on-site disposal facilities, as well as future acceptance of materials containing residual levels of other isotopes, in accordance with guidance for the release and control of property containing residual radioactive material under DOE Order 5400.5 that were issued after the landfill began operations (DOE 1995b and 1997). Review of the WAC should not alter the type of wastes accepted at the Y-12 landfills. An overview of previously used landfills and a planned CERCLA waste disposal facility are also included in Table A.5.3-1 for background information. Information on the ORR disposal facilities is based on the following references: Burns 1993, FWC 1995, MMES 1992, MMES 1995b, PAI 1996, and Schaefer 2000.

#### A.5.3.1 Industrial Landfill IV

Industrial Landfill IV is used for disposal of classified, non-hazardous industrial waste, for construction/demolition waste, and for approved special waste. This landfill is intended for the disposal of classified waste. Approximately 12 percent of the landfill's design capacity has been filled. The landfill has a footprint of about 1.6 ha (4 acres).

# A.5.3.2 Industrial Landfill V

Industrial Landfill V is used for disposal of unclassified, non-hazardous sanitary/industrial waste and for approved special waste. Approved special wastes have included asbestos materials, empty aerosol cans, materials contaminated with beryllium, glass, fly ash, coal pile runoff sludge, empty pesticide containers, and Steam Plant Wastewater Treatment Facility sludge. The landfill area is located on Chestnut Ridge near the eastern end of the Y-12 Plant and serves Y-12, ORNL, ETTP, and other DOE prime contractors at Oak Ridge. The landfill is equipped with a liner and leachate collection system. Disposal of special waste is approved on a case-by-case basis by the State of Tennessee. Requests are filed with the state to provide disposal for additional materials as needed. The landfill is approximately 15 percent filled. The landfill has a footprint of almost 10.5 ha (26 acres) and is being constructed in phases as disposal capacity is needed.

#### A.5.3.3 Construction/Demolition Landfill VI

Construction/Demolition Landfill VI accepts unclassified, non-hazardous construction/demolition debris and approved special waste. Dewatered ash from the Y-12 Steam Plant is currently disposed of in Landfill VI. The facility has been constructed to 100 percent design capacity and has been in operation since 1993. It is approximately 93 percent filled and has a footprint of about 1.6 ha (4 acres).

#### A.5.3.4 Construction/Demolition Landfill VII

Construction/Demolition Landfill VII has been constructed and is on standby status. It will not be placed in service until Landfill VI has been filled to capacity. It has a footprint of slightly more than 12 ha (30 acres).

# A.5.3.5 On-site Low-Level Waste Disposal Capability

Y-12 has no active disposal facility on-site for LLW. All disposal activities at the Bear Creek Burial Grounds were terminated on June 30, 1991. These burial grounds were used to dispose of radiologically contaminated waste. Similar waste streams generated today are containerized and stored at Y-12 or are shipped off-site for disposal.

TABLE A.5.3.1.—Disposal Capabilities at Y-12

<b>Facility Number and Name</b>	Waste Streams Accepted	Capacity <sup>a</sup>	Comment
Industrial Landfill IV	Classified, nonhazardous, nonradioactive industrial wastes, construction/demolition wastes, and approved special wastes	Total capacity: 85,300 yd <sup>3</sup> (65,217 m <sup>3</sup> ) Approximately 4 acres Estimated remaining capacity: 88%	Permit issued by TDEC in January 1989. Placed in operation in October 1989. The landfill is developed in phases as disposal capacity is needed.
Industrial Landfill V	Unclassified, nonhazardous, nonradioactive industrial wastes, and approved special wastes	Total capacity: 2,145,039 yd <sup>3</sup> (1,640,000 m <sup>3</sup> ) Approximately 25.9 acres Estimated remaining capacity: 85%	Class II permit issued by TDEC in April 1993. Placed in operation in April 1994. The landfill is developed in phases as disposal capacity is needed. Replaced Sanitary Landfill II
Construction/Demolition Landfill VI	Construction/demolition debris and approved special wastes	Total capacity: 174,000 yd <sup>3</sup> (133,033 m <sup>3</sup> ) Approximately 4 acres Estimated remaining capacity: 7%	Class IV permit issued by TDEC in April 1993. Placed in operation in December of 1993. All phases of the landfill have been developed. CDL VII will be placed in operation when CDL VI is filled to capacity.
Construction/Demolition Landfill VII	Construction/demolition debris and approved special wastes	Total capacity: 1,850,000 yd <sup>3</sup> (1,414,426 m <sup>3</sup> ) Approximately 30.4 acres Estimated remaining capacity: 100%	Class IV permit issued by TDEC in December 1993. Facility was constructed and prepared for operation in January 1995. Currently in standby status. Facility will be placed in service when CDL VI fills to capacity.
Planned Facility of Interest			
Environmental Management Waste Management Facility	RCRA, TSCA, mixed and LLW generated by remedial actions under CERCLA	Total Capacity: 1,300,000 yd <sup>3</sup> (993,921 m <sup>3)</sup>	Currently in design phase. Operation start anticipated for 2001
Inactive Facilities of Interest		Estimated Capacity or Size if available	
Spoil Area I	Construction debris	Approximately 4 acres	Completed 1985
Sanitary Landfill I	General trash and wastes from ORR		Facility was removed from service in 1983.
Sanitary/Industrial Landfill II	Unclassified, nonhazardous, nonradioactive waste and special waste when specifically permitted by TDEC	Approximately 10-12 acres	Placed in service in 1983. Final closure in 1995. Special waste permitted by TDEC included asbestos-containing materials, coal-pile runoff sludge, steam-plant wastewater treatment plant sludge, waste containing < 12ppm mercury, and materials contaminated with beryllium-oxide.

<sup>&</sup>lt;sup>a</sup> Capacity refers to design capacity.

Sources: Burns 1993, FWC 1995, MMES 1995b, MMES 1992, PAI 1996, Schaefer 2000.

However, the Environmental Management Waste Management Facility that is currently under construction will provide a new disposal capability at ORR for various types of hazardous and radioactively-contaminated waste under certain conditions. This facility has only been approved to accept waste generated as a result of response actions to expedite cleanup of contamination that resulted from previous DOE and *Atomic Energy Act* (AEA) operations on the ORR and that are conducted under *Comprehensive Environmental Response*, *Compensation*, *and Liability Act* (CERCLA) authorization (or in a few cases, under the Inactive Hazardous Substances Site Remedial Action Program [State Superfund] of the State of Tennessee).

The Environmental Management Waste Management Facility will use state-of-the-art disposal technologies, including lined cells with leachate collection capabilities. The WAC for the Environmental Management Waste Management Facility are still being developed and are subject to approval by DOE, EPA, and TDEC. It has a design capacity of 993,921 m³ (1,300,000 yd³). Section 3.2.1 describes the Environmental Management Waste Management Facility.

#### A.6 TRAFFIC AND TRANSPORTATION

This section supports the results of the transportation analyses presented in Section 5.2 of this document. The various types of materials transported as a result of Y-12 operations that have the potential to impact human health include radioactive and hazardous (chemical, explosive, etc.) materials and wastes. For this SWEIS, DOE evaluated the transportation impacts associated with three material types (radioactive wastes, radioactive materials, and hazardous [nonradiological] materials/wastes) transported to and from multiple onsite (ORR) and off-site locations. The assumptions and methodology used in the transportation analysis are described in the following section.

#### A.6.1 Route Selection

To evaluate transportation impacts, DOE chose reasonable surrogate shipment routes to represent all the potential shipment destinations. Figure A.6.1-1 shows the location of the current weapons complex sites with stockpile stewardship and management missions. The shipments and routes modeled were based on 1998 shipment and receipt records for Y-12 operations. The shipping and receiving records for 1998 (No Action - Status Quo Alternative) Y-12 operations from the Enterprise Transportation Analysis System were reviewed and used as the basis to calculate the transportation impacts under the No Action - Planning Basis Operations Alternative. The information contained in these records included the number of shipments and receipts and the origins and destinations of shipments of radioactive materials and wastes, chemicals, and hazardous materials/wastes.

For 1998 operations, 1,025 total shipments and receipts were reported for Y-12. Of these, 685 shipments were of radiological materials, 47 shipments were of radiological waste, and the remaining 293 shipments were of hazardous wastes and materials. The shipments and receipts of these materials encompassed numerous locations throughout the United States. Table A.6.1–1 presents the various routes considered in this analysis and the total number of shipments for each origin/destination. A majority of the listed routes had a large number of shipments and receipts (10 or more); for these routes the actual origin and destination reported in the Enterprise Transportation Analysis System was modeled. Due to uncertainties in future projected shipments and receipts for Y-12 operations, the routes with fewer number of shipments and receipts (much less than 10) were collectively evaluated assuming the longest shipping distance. Although many of the actual routes were shorter in distance, assuming the longest potential distance bounds the impacts. The longest route considered was from Y-12 to Lawrence Livermore National Laboratory (LLNL) in Livermore, California.

TABLE A.6.1-1.—Transportation Routes and Number of Shipments Analyzed

Material Transported	Origin	Destination	Number of Shipments
Radioactive material	Y-12 Plant, TN	Columbia, SC	256
Hazardous material/waste	Y-12 Plant, TN	Columbia, SC	63
Radioactive material	Arlington Heights, IL	Y-12 Plant, TN	113
Hazardous material/waste	Y-12 Plant, TN	Oak Ridge, TN	84
Hazardous material/waste	Y-12 Plant, TN	ORNL, TN	51
Radioactive waste	Y-12 Plant, TN	Clive, UT	47
Hazardous material/waste	Y-12 Plant, TN	ETTP, TN	46
Hazardous material/waste	Y-12 Plant, TN	Houston, TX	29
Radioactive material	LLNL, CA	Y-12 Plant, TN	259
Radioactive material	Pantex, TX	Y-12 Plant, TN	22
Hazardous material/waste	Madison, WI	Y-12 Plant, TN	20
Radioactive material	Mound Facility, OH	Y-12 Plant, TN	26
Radioactive material	Y-12 Plant, TN	Los Alamos, NM	9

Note: ORNL-Oak Ridge National Laboratory

Source: HIGHWAY results.

Detailed route selection for material and waste shipments by truck was determined by the HIGHWAY 3.3 computer code (ORNL [Oak Ridge National Laboratory] 1993). HIGHWAY is a computerized road atlas that details more than 240,000 miles of interstate and other highways. The user can specify the routing criteria to constrain the route selection; options such as using only commercial routes, avoiding toll routes, and using only those routes that comply with DOT regulations for highway route-controlled quantities of radioactive materials can be selected. HIGHWAY calculates the total route length and the distances traveled through rural, suburban, and urban population zones. The distribution of distance among the population zones for the modeled routes is presented in Table A.6.1–2. The code also determines population densities (people per square kilometer) for the three population zones along the specified route using 1990 census data. Population densities determined by HIGHWAY for each modeled route are shown in Table A.6.1–3. The distance and population densities for each population zone are input into the RADTRAN 4 computer code to determine the incident-free (non-accident) and accident impacts for each shipment.

TABLE A.6.1-2.—Transportation Routes and Population Zones

0	D 4: 4: -		Distance (km)	
Origin	Destination —	Rural	Suburban	Urban
Y-12 Plant, TN	Columbia, SC	322	129	3
Arlington Heights, IL	Y-12 Plant, TN	588	272	61
Y-12 Plant, TN	Oak Ridge, TN	0	3.2	0
Y-12 Plant, TN	ORNL, TN	8.2	3.1	0
Y-12 Plant, TN	Clive, UT	2642	316	43
Y-12 Plant, TN	ETTP, TN	10.8	7.3	0
Y-12 Plant, TN	Houston, TX	1,127.2	330.7	22.5
LLNL, CA	Y-12 Plant, TN	3,345	510	59
Pantex, TX	Y-12 Plant, TN	1,461	281	15
Madison, WI	Y-12 Plant, TN	730.1	313.9	63.8
Mound Facility, OH	Y-12 Plant, TN	306	162	14
Y-12 Plant, TN	Los Alamos, NM	1,935	312	21

Source: HIGHWAY results.

TABLE A.6.1-3.—Population Density Distributions Along Modeled Routes

0.4.4.	<b>.</b>	Population Density (persons/km²)		
Origin	<b>Destination</b>	Rural	Suburban	Urban
Y-12 Plant, TN	Columbia, SC	14.1	262.1	1,836.1
Arlington Heights, IL	Y-12 Plant, TN	15.4	351	2,756.8
Y-12 Plant, TN	Oak Ridge, TN	0	166.2	0
Y-12 Plant, TN	ORNL, TN	4.9	89.8	0
Y-12 Plant, TN	Clive, UT	6.3	354.7	2,121.5
Y-12 Plant, TN	ETTP, TN	16.2	89.8	0
Y-12 Plant, TN	Houston, TX	12.9	321.5	2,085.3
LLNL, CA	Y-12 Plant, TN	6.5	340.1	2,069.3
Pantex, TX	Y-12 Plant, TN	9.4	294.2	1,963.1
Madison, WI	Y-12 Plant, TN	15.5	342.3	2,047.4
Mound Facility, OH	Y-12 Plant, TN	17.3	342.4	2,047.4
Y-12 Plant, TN	Los Alamos, NM	8.0	314.2	1,906.5

Source: HIGHWAY results.

# A.6.2 Vehicle-Related Impacts

This section addresses the impacts of traffic accidents and vehicle emissions associated with transporting each material or waste type to its destination. These impacts are not related to the radioactive or hazardous materials/wastes being transported and would be the same as the impacts from the transportation of any nonhazardous material. DOE calculated accident impacts as the number of fatalities that would be expected due to additional vehicle traffic along the proposed routes. Fatalities were calculated on a per shipment basis and were then totaled for all shipments of the specified material and route. Calculations were based on the unit-risk factors (risk per kilometer traveled) developed from national statistics for highway accident-related deaths (SNL 1986). These nonradiological unit-risk factors are presented in Table A.6.2–1.

TABLE A.6.2–1.—Nonradiological Unit-Risk Factors Associated With Truck Transport (per one-way shipment)

	Rural	Suburban	Urban
Fatalities (fatalities/km)			
Nonoccupational	5.3 x 10 <sup>-8</sup>	$1.3 \times 10^{-8}$	7.5 x 10 <sup>-9</sup>
Occupational	1.5 x 10 <sup>-8</sup>	3.7 x 10 <sup>-9</sup>	2.1 x 10 <sup>-9</sup>
Latent fatalities from vehicle emissions (latent fatalities/km)			1.0 x 10 <sup>-7</sup>

Source: SNL 1986.

In addition to risks from accidents, DOE estimated health risks from vehicle emissions. Impacts from vehicle emissions were calculated as the expected number of excess latent fatalities. The distance traveled in an urban population zone and the impact factor for particulate and sulfur dioxide truck exhaust emissions (SNL 1982) were used to estimate urban-area pollution effects due to waste shipments. The impact factor,  $1.0 \times 10^{-7}$ , estimates the number of latent fatalities per kilometer traveled. This impact factor is only valid for urban population zones; therefore, latent fatalities expected from exhaust emissions are only estimated for the total distance that is traveled through urban zones. Note that impacts due to exhaust gases are small relative to impacts from accident fatalities. The nonradiological latent fatality unit-risk factor is also presented in Table A.6.2–1.

Table A.6.2–2 presents vehicle-related impacts such as number of fatalities for total round-trip shipments between analyzed locations. These values were multiplied by the appropriate number of route shipments (Table A.6.1–1) to obtain the total impacts. All shipments were assumed to be round trip to account for the return of the empty shipping casks. Therefore, the data in Table A.6.2–2 were created assuming twice the one way mileage shown in Table A.6.1–2. The expected vehicle pollution latent fatalities were calculated only for distance traveled in urban population zones.

TABLE A.6.2-2.—Vehicle-Related Impacts for Total Round-Trip Truck Shipment

			Fatalit	ies	Latent Fatalities	
Origin	Destination	Shipment Type	Occupational Public		from Vehicle Emissions	
Y-12 Plant, TN	Columbia, SC	Radioactive material	2.72 x 10 <sup>-3</sup>	9.61 x 10 <sup>-3</sup>	1.54 x 10 <sup>-4</sup>	
Y-12 Plant, TN	Columbia, SC	Hazardous waste/material	6.70 x 10 <sup>-4</sup>	2.36 x 10 <sup>-3</sup>	3.78 x 10 <sup>-5</sup>	
Arlington Heights, IL	Y-12 Plant, TN	Radioactive material	$2.25 \times 10^{-3}$	7.95 x 10 <sup>-3</sup>	1.38 x 10 <sup>-3</sup>	
Y-12 Plant, TN	Oak Ridge, TN	Hazardous waste/material	2.00 x 10 <sup>-6</sup>	7.00 x 10 <sup>-6</sup>	0	
Y-12 Plant, TN	ORNL, TN	Hazardous waste/material	1.37 x 10 <sup>-5</sup>	4.84 x 10 <sup>-5</sup>	0	
Y-12 Plant, TN	Clive, UT	Radioactive waste	$3.84 \times 10^{-3}$	1.36 x 10 <sup>-2</sup>	4.04 x 10 <sup>-4</sup>	
Y-12 Plant, TN	ETTP, TN	Hazardous waste/material	1.74 x 10 <sup>-5</sup>	6.14 x 10 <sup>-5</sup>	0	
Y-12 Plant, TN	Houston, TX	Hazardous waste/material	$1.05 \times 10^{-3}$	3.72 x 10 <sup>-3</sup>	1.31 x 10 <sup>-4</sup>	
LLNL, CA	Y-12 Plant, TN	Radioactive material	2.70 x 10 <sup>-2</sup>	9.55 x 10 <sup>-2</sup>	3.06 x 10 <sup>-3</sup>	
Pantex, TX	Y-12 Plant, TN	Radioactive material	1.01 x 10 <sup>-3</sup>	3.57 x 10 <sup>-3</sup>	6.60 x 10 <sup>-5</sup>	
Madison, WI	Y-12 Plant, TN	Hazardous waste/material	4.90 x 10 <sup>-4</sup>	1.73 x 10 <sup>-3</sup>	2.55 x 10 <sup>-4</sup>	
Mound Facility, OH	Y-12 Plant, TN	Radioactive material	2.71 x 10 <sup>-4</sup>	9.58 x 10 <sup>-4</sup>	7.28 x 10 <sup>-5</sup>	
Y-12 Plant, TN	Los Alamos, NM	Radioactive material	5.44 x 10 <sup>-4</sup>	1.92 x 10 <sup>-3</sup>	3.78 x 10 <sup>-5</sup>	

Note: Based on travel through urban areas only.

Source: SNL 1982.

#### A.6.3 Cargo-Related Incident-Free Impacts

This section estimates the radiological impacts of incident-free transportation (i.e., no occurrence of accidents) to occupational and public receptors. When radioactive materials or wastes are transported, there is some external radiation dose from the transported cargo. DOE used the RADTRAN 4 model (SNL 1992) to estimate the radiological impacts. Required route-specific inputs such as the number of miles traveled, population densities adjacent to shipping routes, and the number of miles traveled in each of the population zones (urban, suburban, and rural) are determined using the HIGHWAY model described in Section A.6.2. Four radiation exposure scenarios were analyzed using the RADTRAN 4 code as follows:

- Along Route (off-link): Exposure of members of the public who reside adjacent to routes of travel
- Sharing Route (on-link): Exposure of members of the public sharing the right of way
- Stops: Exposure of members of the public while shipments are at rest stops
- Occupational (crew): Exposure of vehicle crews

Among the more sensitive RADTRAN 4 input parameters is the Transportation Index (TI). The TI represents the radiation dose at 1 m away from the surface of the shipping package and is limited by regulation (10 CFR 71). Although experience indicates that the external dose rate is well below the regulatory limit in many shipments, RADTRAN 4 modeling was performed with the regulatory limit TI of 10.

The incident-free impacts estimated from RADTRAN 4 are in units of person-rem. These can be converted into latent cancer fatalities (LCFs) using conversion factors. For doses to the public, one person-rem is

expected to cause  $5 \times 10^{-4}$  LCFs, and for doses to workers one person-rem is expected to cause  $4 \times 10^{-4}$  LCFs (ICRP 1991).

In addition to the RADTRAN 4 inputs described in Section A.5.5, other unique parameters can affect impacts from truck shipments. The vehicle speed was assumed to be 15, 25, and 55 mph in urban, suburban, and rural zones, respectively. DOE believes that these speeds actually underestimate the probable speed of the truck through each of the population zones. This assumption results in a conservative overestimation of exposure and also accounts for the possibility of speed reductions due to traffic. All truck shipments were assumed to have 0.011 hour of stopping time for every kilometer traveled, accounting for overnight stopping. Transport of the distance between the waste and the crew is assumed to be 10 m. During stops, there are an assumed 50 members of the public present 20 m from the waste shipment.

### A.6.4 Cargo-Related Accident Impacts

This section presents the impacts due to transportation accidents in which an environmental release of radioactive material/waste occurs. Radiological impacts were evaluated considering the probability of a given accident occurring and the consequences of that accident. The RADTRAN 4 model estimates the collective accident risk to populations by considering the spectrum of possible accidents and summing the results for each type of accident. The estimates in Section A.6.4.1 do not show the risk from a given accident occurring but present the total expected impacts considering the probability and consequences of all accidents.

# A.6.4.1 Accident Types

All accidents can be represented by a spectrum of severity classes ranging from those considered least severe to most severe. The severity class of an accident is dependent on the crush force or impact speed and the duration of a 1,300-Kelvin fire (NRC 1977). The accident severity categories and associated conditional probabilities found in NUREG-0170 (NRC 1977) were used in assessing cargo-related accident impacts for this analysis. Each accident severity category has an associated conditional probability. The conditional probabilities represent the likelihood that an accident will involve the mechanical forces and the heat energy associated with each of the categories.

Table A.6.4–1 shows what fraction of the total accidents would be expected to be from each severity category, as based on NUREG-0170. For example, of all possible truck accidents that may occur, 55 percent would be classified as a Level 1 severity accident. According to these fractional occurrences, a Level 1 accident occurs more often but is the least severe while a Level 8 is highly unlikely but is the most severe. The table also represents the fraction of all accidents of that type that could occur in each of the population density zones. Of all expected Level 1 severity accidents, 10 percent would occur in the rural population density zone, another 10 percent would occur in the suburban population density zone, and 80 percent would occur in the urban population density zone.

TABLE A.6.4-1.— Accident Conditional Probability of Occurrences

	<b>.</b>	<b>Population Density Zone</b>			
Accident Severity Category	Fractional Occurrences	Rural	Suburban	Urban	
		Truck			
1	0.55	0.1	0.1	0.8	
2	0.36	0.1	0.1	0.8	
3	0.07	0.3	0.4	0.3	
4	0.02	0.3	0.4	0.3	
5	$2.8 \times 10^{-3}$	0.5	0.3	0.2	
6	$1.1\times10^{-3}$	0.7	0.2	0.1	
7	$8.5 \times 10^{-5}$	0.8	0.1	0.1	
8	$1.5\times10^{-5}$	0.9	0.05	0.05	

Source: NRC 1977.

#### A.6.4.2 Accident Release

As with the accident severity categories and conditional probabilities discussed in the previous section, accident releases were calculated using NUREG-0170 (NRC 1977). Three factors are used to determine the amount of material that is released into the environment and available for inhalation. These factors include the release fraction, the aerosolized fraction, and the respirable fraction.

The release fraction is the fraction of material that would be released from the shipping container in an accident of a given severity category. For this analysis, all waste containers were assumed to be Type B shipping containers with material release fractions assumed to be typical for low-level radioactive waste. The estimated release fractions are reported in Table A.6.4–2.

The aerosolized fraction represents the fraction of the material released in an accident of a given severity that becomes aerosolized. The respirable fraction represents the fraction of aerosolized material that could be inhaled. Both of these factors are dependent on the physical and chemical characteristics of the waste form. For this analysis, the aerosolized and respirable fractions for the radioactive material and waste considered were assumed to be 1 (i.e., all the material that is released is aerosolized and respirable).

TABLE A.6.4-2. — Estimated Release Fractions

Accident Severity Category	Release fraction
1	0
2	0
3	0.001
4	0.01
5	0.05
6	0.1
7	0.5
8	1

Source: Modeling results.

# A.6.4.3 Radiological Material and Waste Characterization

To determine the potential cargo-related impacts from accidents, DOE estimated the radiological content of the radioactive materials and wastes shipped to and from Y-12. For both the radiological materials and wastes transported representative concentrations were assumed due to the classification of actual concentrations. The radionuclide concentrations (curies per kilogram) and amounts per package (curies per package) used in the analysis are presented in Tables A.6.4–3 and A.6.4–4. The wastes and materials were assumed to be transported in 55-gal drums with radioactive materials shipment having 50 packages per shipment and radioactive waste shipments having 48 packages per shipment.

TABLE A.6.4-3.—Representative Uranium Concentrations for Radioactive Materials

		v
Radionuclide	(Ci/kg)	(Ci/package)
U-232	8.80x10 <sup>-4</sup>	0.0792
U-234	$2.10 \times 10^{-3}$	0.189
U-235	$8.40 \times 10^{-5}$	$7.56 \times 10^{-3}$
U-236	9.71x10 <sup>-6</sup>	8.73x10 <sup>-4</sup>
U-238	$3.20 \times 10^{-4}$	0.0288

Source: Modeling results.

TABLE A.6.4–4.—Representative Uranium Concentrations for Radioactive Wastes

Radionuclide	(Ci/kg)	(Ci/package)
U-232	8.80x10 <sup>-4</sup>	0.0845
U-234	$5.88 \times 10^{-4}$	0.0565
U-235	1.89x10 <sup>-5</sup>	$1.81 \times 10^{-3}$
U-236	$2.05 \times 10^{-6}$	$1.97 \times 10^{-4}$
U-238	3.27x10 <sup>-4</sup>	0.0314

Source: Modeling results.

# A.6.4.4 Exposure Pathways for Released Material

RADTRAN 4 assumes that the material available to the receptor in any given accident is dispersed into the environment according to standard Gaussian diffusion models. Default data for atmospheric dispersion were used, representing an instantaneous ground-level release and a small diameter source cloud. The calculation of the collective population dose after the release and dispersal of radioactive material includes the following pathways:

- External exposure to a passing radioactive cloud
- External exposure to contaminated soil
- Internal exposure from inhaling airborne contaminants

TABLE A.4-2.—Y-12 Plant Facilities [Page 1 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
Defense Progr Currently Sur	ram (DP) Facilities			
9104-01	OFFICE BLDG.	5,340	B-1	1969
9104-02	OFFICE BLDG.	5,340	B-1	1970
9104-03	OFFICE BLDG.	5,340	B-1	1970
9208-00	ENGINEERING	27,000	A-3	1945
9213-00	SURPLUS FACILITY (OLD CRITICALITY E)	23,500	B-1	1951
9401-02	PLATING SHOP	12,900	B-4	1946
9404-03	STORAGE	5,500	A-5	1947
9404-08	CARPENTRY/ELECTRICAL SHOP	3,000	A-2	1949
9409-15	COOLING TOWER FOR 9204-3	1,350	WOOD	1987
9409-19	COOLING TOWER FOR 9207	3,550	WOOD	1951
9409-28	COOLING TOWER FOR 9207	770	WOOD	1962
9409-29	COOLING TOWER FOR 9207	1,850	MET./WD.	1964
9409-32	COOLING TOWER FOR 9207	1,500	MET./WD.	1966
9416-02	UTILITIES-WATER TREATMENT	250	A-1	1944
9416-14	UTILITIES-WATER TREATMENT	44	A-5	1964
9416-22	UTILITIES - WATER TREATMENT	44	A-5	1964
9416-23	UTILITIES - WATER TREATMENT	44	A-5	1967
9416-25	UTILITIES-WATER TREATMENT	64	A-5	1964
9416-27	FIRE PROTECTION VALVE HOUSE	64	A-5	1978
9418-04	TANK BLDG.	400	A-1	1944
9418-05	TANK BLDG.	400	A-1	1944
9418-06	UTILITIES-TANK BLDG.	400	A-4	1944
9418-09	UTILITIES-TANK BLDG.	400	A-1	1944
9620-02	Z OIL FILTER & PUMPHOUSE	1,000	A-1	1945
9703-11	POST 16-WEST PORTAL	590	A-1/A-5	1955
9703-14	POST 3-SOUTH PORTAL (9213 AREA)	100	A-4	1952
9720-32A	PSO OPERATIONS	3,400	A-3	1970
9720-36	EXPLOSIVES STORAGE MAGAZINE	128	A-1	1974

TABLE A.4-2.—Y-12 Plant Facilities [Page 2 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9722-06	MOTOR GENERATOR BLDG. (9934-59)	144	A-4	1987
9723-16	OFFICE BUILDING	11,025	D-3	1944
9724-01	TSD PARKING FACILITY	288	A-1	1987
9732-02	CARPENTER SHOP	400	A-4	1944
9732-03	PAINTER FACILITY	400	A-4	1944
9733-04	ELECTRICAL ENGINEERING	11,450	A-4	1945
9734-00	PROJECT ENGINEERING	11,700	A-2	1951
9754-02	MOTOR VEHICLE SERVICE STATION	276	A-3	1979
9767-03	COMPRESSOR BLDG.	8,500	A-3	1959
9767-05	COMPRESSOR BLDG.	1,300	A-4	1962
9767-07	UTILITIES	404	A-4	1968
9770-01	EMERGENCY GENERATOR	155	A-2	1945
9770-06	PROCESS ANALYSIS-SAMPLING STATION	43	A-4	1954
9770-07	PROCESS ANALYSIS-SAMPLING STATION	43	C-3	1968
9823-00	UTILITIES-COAL SAMPLING STATION	400	A-5	1965
9824-04	GAS AUTOCLAVE FACILITY	1,400	A-5	1976
9824-05	GAS AUTOCLAVE FACILITY	600	A-5	1976
9828-05	WEST PROPANE FACILITY	225	A-5	1977
9949-26	POST 6 PEDESTRIAN ENTRANCE NW 92	30	A-5	1978
9949-29	POST 32 (NW OF 9720-6)	60	A-1	1980
9949-31	POST 40 ON 30 FT TOWER	38	A-5	1980
9949-35	POST 45	36	A-5	1983
9949-36	POST 48 ON TOWER (SE 9107)	36	A-5	1983
9949-37	POST 41	36	A-5	1984
9949-43	POST 21, GUARD BOOTH CHECK POINT	110	A-5	1987
9949-44	POST 21A, GUARD BOOTH CHECK POINT	40	A-5	1987
9949-47	POST 47, ASSESSMENT TOWER (TOWER)	49	A-5	1988
9949-48	POST 42, ASSESSMENT TOWER (TOWER)	49	A-5	1988
9949-49	POST 49, ASSESSMENT TOWER (TOWER)	49	A-5	1987

TABLE A.4–2.—Y-12 Plant Facilities [Page 3 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9949-50	POST 46, ASSESSMENT TOWER (TOWER)	49	A-5	1988
9949-51	POST 43, ASSESSMENT TOWER (TOWER)	49	A-5	1988
9949-56	POST 37	49	B-5	1986
9949-58	POST 39	49	B-5	1986
9949-59	POST 36	49	B-5	1986
9949-60	POST 27	100	A-5	1986
9949-63	POST 10	36	A-5	1988
9949-64	POST 10, ID CHECK BOOTH	98	A-5	1988
9949-68	POST 14	36	A-5	1988
9983-09	OFFICES AND TESTING	576	C	1969
9983-10	OFFICES	540	С	1968
9983-11	STORAGE	480	С	1966
9983-13	OFFICES	576	C	1975
9983-15	UTILITIES	576	C	1973
9983-AG	ENVIRONMENTAL RESTORATION	1,960	С	1989
9983-AH	ENVIRONMENTAL RESTORATION	1,960	C	1989
9984-A-00	RADIO COMMUNICATIONS	192	A-2	1964
9990-02	PERIMETER AIR MONITORING STATION 32	168	FIBGL.	1987
9999-02	MOTOR GENERATOR	140	A-4	1949
76 Total DP Fa	ncilities Currently Surplus	161,237		
Projected Surp	lus Within 10 Years (Funding Dependent)			
9201-05	ASSEMBLY OPERATIONS	530,500	B-2/B-4	1945
9204-04	ASSEMBLY OPERATIONS	307,475	B-2	1949
9206-00	ENRICHED URANIUM OPERATIONS	67,294	B-3	1946
9409-17	COOLING TOWER FOR 9206	1,400	WOOD	1944
9416-09	PUMPHOUSE	300	A-1/A-2	1945
9510-02	DISPOSAL PIT	900	A-1	1944
9616-04	CHEMICAL SERVICES	120	A-5	1958
9622-00	DYE PENETRANT WASTE STORAGE	217	A-4	1979

TABLE A.4–2.—Y-12 Plant Facilities [Page 4 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9720-17	URANIUM CHEMISTRY (STEEL & TRANS)	4,100	A-1	1958
9767-02	UTILITIES	1,200	A-1	1945
9768-00	UTILITIES	1,200	A-2	1945
11 Total DP to	Be Surplus Within 10 Years	914,706		
Continuing Mi	ission			
0081-22	TEMPORARY BULK WORK ORDER MATE	14,578	A-1	1944
0910-00	BOOSTER PUMPING STATION	1,475	A-4	1966
1401-02	RIVER CHLORINE BLDG. (T-318)	44	STL. & TRN.	
1404-01	RIVER PUMP STATION (T-278)	1,968	A-4	
1404-02	RIVER CHLORINE BLDG. (T-318)	462	A-3	
1404-03	RIVER COMPUTER ROOM	252	A-4	
1404-04	RIVER KMNO4 BLDG.	208	A-3	
1404-06	RIVER SWITCH-GEAR BLDG.	864	A-3	
1404-07	EGRF-EQUIPMENT STORAGE BLDG.	14,500	A-4	
1405-00	WATER PLANT	123,540	B-3	1943
1405-01	WATER PLANT 4 MILLION GALLON RES	30,250	A-4	1943
1405-02	WATER PLANT 3 MILLION GALLON RES	30,100	A-4	1943
1414-00	BOOSTER STATION	7,646	A-4	1954
1415-00	RESERVOIR-SCARBORO RD.	N/A	CONC. F/TK	1954
1416-00	BEAR CR. RESERVOIR-WEST	N/A	CONC. F/TK	1954
1417-00	CATHODIC PROTECTION OF RESERVOIR	N/A	CONC. F/TK	1954
1501-01	ELZA SWITCHYARD EQUIP. ROOM (K-74)	2,800	A-2	1944
1501-02	BATTERY ROOM STORAGE	1,950	A-2	1944
1501-03	ALTERNATE 161-kV FEEDER (K-741-A)	305	A-4	1989
2001-00	ROADS & GROUNDS SHOP	5,625	A-1	1968
2002-00	WATER PLANT MAINTENANCE BLDG.	4,900	A-5	1978
2002-01	BLDG. UNDER SURGE TANK	5,625	A-5	
2002-01A	GENERATOR BLDG.	432	A-3	
2003-00	WATER PLANT THICKENER PUMP STA.	396	A-4	1980

TABLE A.4–2.—Y-12 Plant Facilities [Page 5 of 26]

2004-00 2005-00 2006-00	WATER PLANT DIKE PREVENTER STA. HEAVY EQUIPMENT GARAGE 10-IN. EAST BACKFLOW PREVENTER B	320 3,900	A-4	1980
		3,900		1700
2006-00	10-IN. EAST BACKFLOW PREVENTER B		A-1	1984
		360	A-4	1987
2007-00	PUMP STORAGE BLDG.	840	A-5	1988
2008-00	EQUIPMENT STORAGE BLDG.	1,254	A-5	1988
2009-00	PARTS STORAGE BLDG.	583	A-4	1988
2010-00	SALT STORAGE BLDG.	1,253	A-5	1988
2011-00	VEHICLE WASH BLDG.			
2013-00	METER BUILDING	524	A-5	
2014-00	WATER TREATMENT BLDG.	224	A-5	
7620-00	CLARK CENTER			
7621-00	HEADQUARTERS BLDG. (FOR 7620)	793	A-1	
7622-00	BARBECUE SHELTER (FOR 7620)	2,123	A-1	
7623-00	BATH HOUSE (FOR 7620)	1,008	CINDER BLK.	
9100-11	SWINE SHED-W		A-7	
9100-12	SWINE SHED-E		A-1	
9100-13	SWINE SHED BARN		A-1	
9100-14	SWINE PRODUCTION		A-1	
9103-00	OFFICES INFORMATION PROCESSING C	71,800	B-1	1971
9106-00	OFFICES	16,000	B-2	1977
9107-00	TRANSPORTATION SAFEGUARD FACILITY	11,742	A-3	1980
9109-00	OFFICE BLDG.	9,350	B-3	1984
9110-00	OFFICE BLDG.	8,630	B-3	1985
9111-00	NUMERICAL CONTROL TOOL DESIGN	15,000	B-6	1984
9112-00	MECHANICAL DESIGN COMPUTER APPL.	11,500	B-6	1984
9113-00	TRIDENT II OFFICE BLDG.	60,850	B-5	1987
9114-00	MK-F OFFICE BLDG.	37,500	B-5	1987
9115-00	HS OFFICES	15,300	B-3	1989
9116-00	HS OFFICES	15,300	B-3	1988

TABLE A.4-2.—Y-12 Plant Facilities [Page 6 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9117-00	INTERACTIVE GRAPHICS SYS. OPER. C	19,500	A-5	1987
9119-00	FCAP '88 OFFICE BLDG.	72,458	B-5	1991
9201-01	TOOL DESIGN	263,128	B-2	1955
9201-01W	SEAWOLF ASSEMBLY FACILITY	8,770	B-5	1990
9201-05N	PRODUCTION MACHINING PLATING SPE.	80,500	B-2	1972
9201-05W	MACHINE SHOP	61,000	B-2/B-4	1967
9202-00	BUDGETS	128,800	B-1	1954
9203-00	LABORATORY DEVELOPMENT	41,700	B-2	1954
9203A-00	LABORATORY DEVELOPMENT	13,650	B-3	1968
9204-02	ASSEMBLY OPERATIONS	270,000	B-1	1945
9204-02E	ASSEMBLY OPERATIONS	151,200	B-1	1969
9205-00	UTILITIES	3,443	A-4	1951
9212-00	ENRICHED URANIUM OPERATIONS	314,377	B-2	1949
9215-00	ENRICHED URANIUM MACHINING & FORMING	157,000	B-2	1959
9217-00	GENERAL SHOPS	1,350	A-5	1965
9217-01	GENERAL SHOPS	1,350	A-5	1965
9219-00	LABORERS, IRONWORKERS, & RIGGER	7,350	A-3	1965
9401-03	PROCESS MAINTENANCE	74,200	B-4	1955
9404-01	STORES (ANIMAL FEED & BEDDING)	4,650	A-2	1951
9404-02	PLANT & INSTR. AIR COMPRESSORS	4,650	B-2	1955
9404-05	PAINT SHOP	5,800	A-2	1944
9404-06	TOWER WATER PUMPHOUSE	800	A-2	1944
9404-09	RUBBER SHOP	3,340	A-1	1945
9404-10	PUMPHOUSE B-2	3,400	A-1	1945
9404-11	PURIFICATION FACILITY	1,000	A-2	1944
9404-12	PUMPHOUSE A-4	1,900	A-2	1944
9404-13	PUMPHOUSE A-5	1,000	A-2	1944
9404-16	UTILITIES S. B-4	1,480	A-4	1953
9404-17	PUMPHOUSE SW A-4 SB & MW	1,400	STL/TRN.	1955

TABLE A.4-2.—Y-12 Plant Facilities [Page 7 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9404-18	MW PLANT (STEEL & TRANSITE)	4,100	A-1	1955
9404-20	WEST END LABORERS AND MASONS	1,000	A-1	1955
9404-21	PUMPHOUSE 24-IN. BOOSTER PUMPS	553	A-4	1973
9404-24	FIRE WATER PUMPHOUSE	1,040	A-4	1991
9409-02	ORIGINAL AII COOLING SPRAY POND	5,600	CONC.	1960
9409-06	COOLING TOWER FOR 9731	1,800	MET./WD	1943
9409-10	COOLING TOWER FOR 9204-2	2,400	WOOD	1949
9409-12	COOLING TOWER FOR 9201-4	2,004	WOOD	1956
9409-13	COOLING TOWER FOR 9201-5	7,300	WOOD	1958
9409-18	COOLING TOWER FOR 9202	1,350	WOOD	1956
9409-20	COOLING TOWER FOR 9204-4	1,600	CONC.	1988
9409-22	COOLING TOWER FOR 9212	4,200	WOOD	1953
9409-22E	COOLING TOWER FOR 9212	1,332	METAL	1967
9409-23	COOLING TOWER FOR 9995	3,350	MET./WD.	1957
9409-24	COOLING TOWER FOR 9212	1,450	WOOD	1955
9409-24E	COOLING TOWER FOR 9212	600	METAL	
9409-26	COOLING TOWER FOR 9215	1,900	WOOD	1961
9409-30	COOLING TOWER FOR 9737	480	WOOD	1966
9409-31	COOLING TOWER FOR 9202	940	WOOD	1965
9409-33	COOLING TOWER FOR 9995	500	MET./WD.	1971
9409-34	COOLING TOWER SE 9727-4	528	MET./WD.	1983
9409-35	COOLING TOWER FOR 9720-6	100	METAL	1986
9409-36	COOLING TOWER FOR 9213	80	METAL	
9416-01	UTILITIES-WATER TREATMENT	72	A-2	1971
9416-04	COOLING TOWER CONTROLS	230	A-4	1943
9416-10	UTILITIES-WATER TREATMENT	300	A-1/A-2	1945
9416-11	UTILITIES-WATER TREATMENT	44	A-5	1964
9416-12	UTILITIES-WATER TREATMENT	44	A-5	1965
9416-13	UTILITIES-WATER TREATMENT	44	A-5	1965

TABLE A.4-2.—Y-12 Plant Facilities [Page 8 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9416-15	UTILITIES-WATER TREATMENT	44	A-5	1967
9416-16	UTILITIES-WATER TREATMENT	44	A-5	1967
9416-17	UTILITIES-WATER TREATMENT	44	A-5	1967
9416-18	UTILITIES - WATER TREATMENT	50	A-5	1967
9416-19	UTILITIES - WATER TREATMENT	50	A-5	1964
9416-20	UTILITIES WATER TREATMENT	90	A-5	1967
9416-21	UTILITIES - WATER TREATMENT	64	A-5	1967
9416-24	UTILITIES - CONTROL BLDG.	64	A-2	1973
9416-26	UTILITIES - WATER TREATMENT	64	A-5	1965
9416-28	FIRE PROTECTION VALVE HOUSE	150	A-4	1983
9416-29	EFFLUENT MONITORING STATION	99	CONC. BELOW GRAD	1985
9416-30	FIRE PROTECTION VALVE HOUSE	44	A-5	1972
9416-31	FIRE PROTECTION VALVE HOUSE	171	A-4	1986
9416-32	WATER TREAT. BLDG. & VALVE HOUSE	200	A-5	1987
9416-33	WATER TREAT. BLDG. & VALVE HOUSE	200	A-5	1987
9416-36	VALVE HOUSE	45	A-5	1990
9416-37	VALVE HOUSE	43	A-5	1990
9416-38	SPRINKLER VALVE HOUSE	36	A-5	1989
9416-39	SPRINKLER VALVE HOUSE	43	A-5	1990
9416-40	SPRINKLER VALVE HOUSE	43	A-5	1990
9416-41	SPRINKLER VALVE HOUSE	171	A-5	1989
9416-42	SPRINKLER VALVE HOUSE	50	A-5	1986
9416-43	SPRINKLER VALVE HOUSE	48	A-5	1993
9416-44	SPRINKLER VALVE HOUSE	75	A-5	1994
9416-45	VALVE HOUSE W. OF B-2	45	A-5	1970
9416-46	VALVE HOUSE N. OF 9423	64	A-5	1984
9417–06	WATER SPRINKLER RISER	336	A-5	1985
9417-07	WATER HEATER BLDG.	336	A-5	1988
9417-08	DECHLORINATION FACILITY	144	A-9	1991

TABLE A.4-2.—Y-12 Plant Facilities [Page 9 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9417-09	DECHLORINATION FACILITY	90	A-9	1991
9418-10	VACUUM PUMP BLDG.	80	A-3	1992
9419-02	UTILITY (WOOD & TRANSITE)	1,000	A-1	1944
9420-00	CONSOLIDATED SHOPS	27,217	A-5	1980
9420-01	HOST/TRIG TRAINING	5,000	A-5	1985
9422-01	STORM DRAIN MONITORING	80	С	1987
9422-02	STORM DRAIN MONITORING	64	С	1987
9422-03	STORM DRAIN MONITORING	72	С	1987
9422-04	STORM DRAIN MONITORING	64	С	1987
9422-05	STORM DRAIN MONITORING	64	С	1987
9422-06	STORM DRAIN MONITORING	64	С	1987
9422-08	STORM DRAIN MONITORING-SITE 14A	64	A-7	
9422-10	STORM DRAIN MONITORING	64	С	1987
9422-11	STORM DRAIN MONITORING	64	С	1987
9422-12	STORM DRAIN MONITORING	64	С	1987
9422-13	STORM DRAIN MONITORING	64	С	1987
9422-14	STORM DRAIN MONITORING-SITE SP	64	C	1987
9422-15	STORM DRAIN MONITORING	64	С	1987
9422-16	STORM DRAIN MONITORING	64	С	1987
9422-17	STORM DRAIN MONITORING	64	С	1987
9422-18	SANITARY SEWER MONITORING- STA	120	С	1991
9422-20	OUTFALL MONITORING - SITE IHgTU	64	С	1993
9422-21	STORM DRAIN MONITORING- SITE WE	64	C	1993
9423-00	MAINTENANCE	5,000	A-5	1987
9423-02	METER BLDG.	224	A-5	1993
9424-03	FOAM BLDG. FOR 9720-58	300	A-5	1993
9501-01	ELECT. SUBSTATION/9201-1	NA	NA	1943
9501-02	ELECT. SUBSTATION/9201-2	NA	NA	1943
9501-03	ELECT. SUBSTATION/9201-3	NA	NA	1943
9501-04	ELECT. SUBSTATION/9204-1	NA	NA	1943

TABLE A.4-2.—Y-12 Plant Facilities [Page 10 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9501-05	ELECT. SUBSTATION/9201-4	NA	NA	1944
9501-06	ELECT. SUBSTATION/9201-5	NA	NA	1944
9501-07	ELECT. SUBSTATION/9204-2	NA	NA	1943
9501-08	ELECT. SUBSTATION/9204-3	NA	NA	1944
9501-09	ELECT. SUBSTATION/9204-4	NA	NA	1944
9610-00	OIL AND PAINT STORAGE	2,350	A-4	1944
9610-01	FLAMMABLE LIQUID STORAGE	135	A-5	1989
9611-02	SEWAGE EJECTOR STATION	200	A-1	1986
9611-03	SEWAGE LIFT STATION PKG. FIBER	176	UG-FIBRE	1993
9611-04	LEACHATE LIFT SUMP	293	UG-CONC.	1993
9616-03	CHEMICAL UNLOADING STATION	1,400	A-1	1945
9616-03TK3	WORK SHOP - MAINTENANCE	380	PLATE TANK	1945
9616-05	CYLINDER STORAGE BLDG. (FLUORINE)	2,800	A-5	1987
9616-09	STEAM PLANT WASTE WATER FACILITY	3,300	A-5	1985
9616-10	BULK SULFURIC ACID UNLOADING STA.	335	A-5	1986
9621-00	RCRA STORAGE AREA	770	CONC.	1945
9625-00	KATHABAR EQUIPMENT	1,300	A-5	1987
9626-00	MK-F SECURITY/MEDICAL	5,000	A-5	1977
9627-00	MK-F TRAINING/ENVIRONMENT	9,248	A-5	1986
9701-05	POST 15 - EAST PORTAL & WAITING RO	400	A-4	1960
9701-06	POST 5 - EAST PORTAL	150	A-4	1960
9702-00	TELEPHONE & TELEGRAPH	2,090	A-4	1953
9702-01	TELEPHONE COMM. CTR. OFFICE	14,400	A-3	1995
9703-15	S&H OFFICE/TRAINING	12,056	A-5	1987
9703-16	IRON WORKER SHOP	6,600	A-5	1962
9704-02	ACCOUNTING & BUDGET	43,650	B-6	1952
9706-01	PHYSICAL SECURITY DEPARTMENT	6,900	A-2	1945
9706-01A	COMPLIANCE & RESOURCE MANAGEMENT	7,700	A-2	1946
9706-02	MEDICAL	27,600	A-2	1948

TABLE A.4-2.—Y-12 Plant Facilities [Page 11 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9709-00	TRAINING FACILITY, CENTER FOR CONT	53,000	A-1	1954
9710-02	POST 21 (GUARD HEADQUARTERS)	25,540	A-1	1948
9710-03	GUARD HEADQUARTERS (NEW)	41,124	B-3	1988
9711-01	TECHNICAL LIBRARY	27,092	A-1	1960
9711-05	CONFERENCE ROOM	57,650	B-1/B-6	1948
9712-00	GARAGE	33,890	A-1	1945
9714-00	TRANSPORTATION SAFEGUARDS	41,183	A-5	
9714-01	RANGE TOWER	64	A-5	1988
9714-02	SECURITY BOOTH	48	A-5	1989
9720-01	STORES	43,000	A-1	1944
9720-02	MAINTENANCE STORES (BULK MATERIAL)	47,800	A-1	1944
9720-03	DUO PACKING & SHIPPING	8,400	A-3	1965
9720-04	OFFICE AND EXCESS MAT'L FUNCTION	12,960	A-4	1969
9720-05	PSO WAREHOUSE	53,979	A-1/A-4	1945
9720-06	GENERAL PLANT MAINTENANCE	63,700	B-4	1952
9720-07	BM STORES	28,300	A-5	1955
9720-08	STORES	142,700	A-5	1957
9720-12	STORAGE WAREHOUSE	15,000	A-4	1957
9720-13	PLANT MAINTENANCE WAREHOUSE	10,700	A-5	1955
9720-14	WEAPONS RETURN STORAGE	2,400	A-5	1955
9720-15	PAINT SHOP	5,100	A-3	1955
9720-16	MAINTENANCE (RIGGERS)	15,000	A-5	1957
9720-18	DEPLETED URANIUM STORAGE	6,050	A-5	1958
9720-19	FOAM SHOP	3,756	A-4	1962
9720-19A	SHOP	2,475	A-4	1987
9720-19B	STORAGE BUILDING	3,000	A-4	
9720-20	DEVELOPMENT MAINT. SHOPS & OFFICES	4,800	A-5	1963
9720-21	STORES	2,950	A-4	1964
9720-22	STORAGE	16,000	A-3	1967

TABLE A.4-2.—Y-12 Plant Facilities [Page 12 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9720-23	BULK CHEMICAL STAGING BLDG.	2,600	A-5	1986
9720-24	CLASSIFIED TOOL STORAGE	11,200	A-3	1970
9720-26	MERCURY STORAGE	13,600	A-4	1963
9720-27	REACTIVE METAL STORAGE	1,200	A-3	1971
9720-28	INTERIM - LLW DISPOSAL BLDG.	3,600	A-3	1984
9720-30	STORAGE FACILITY	792	A-5	1974
9720-33	ON HOLD FOR FUTURE USE STORAGE	39,903	A-3	1970
9720-34	STORAGE & SHOP	800	A-5	1963
9720-37	AMMUNITION STORAGE	210	A-5	1980
9720-38	MATERIAL DISPATCHING STOR. BLDG.	7,700	A-5	1982
9720-40	STORAGE SHED FOR GAS BOTTLES	1,300	A-5	1990
9720-46	LITHIUM STORAGE	3,465	A-5	1988
9720-47	SODIUM HYPOCHLORITE STATION	2,400	A-5	1987
9720-48	MAINTENANCE - STORAGE PUMPS	3,750	A-5 OPN	1986
9720-49	MAINTENANCE - STORAGE	2,500	A-5 OPN	1986
9720-50	MAINTENANCE - STORAGE	4,000	A-5 OPN	1986
9721-51	MAINTENANCE - STORAGE	2,500	A-5 OPN	1986
9720-52	MAINTENANCE - STORAGE	4,000	A-5 OPN	1986
9720-53	MAINTENANCE - STORAGE	4,000	A-5 OPN	1987
9720-60	SOLIDS STORAGE FACILITY (DARA SOIL)	14,000	A-8	1989
9720-73	LINEMAN BLDG. (LABORER YARD)	1,800	A-5	1994
9720-74	90 DAY - STANDBY BLDG.	192	A-5	1994
9720-75	90 DAY - HAZ. WASTE STORAGE BLDG.	488	A-5	1994
9720-76	90 DAY - WORK BAY STORAGE BLDG.	240	A-5	1994
9720-77	90 DAY - NON-HAZ. WASTE STORAGE	255	A-5	1994
9720-78	90 DAY - NON-HAZ. WASTE STORAGE	276	A-5	1994
9720-79	CHOCKER BARN (9929-1 YARD)	1,404	A-5	1994
9720-80	EQUIPMENT STORAGE	120	C	1996
9720-81	EQUIPMENT STORAGE	120	C	

TABLE A.4-2.—Y-12 Plant Facilities [Page 13 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9721-00	BIODENITRIFICATION NITRIC ACID REC	288	A-5	1989
9722-02	MEDICAL EMERGENCY	820	A-1	1944
9722-03	ELECTRICAL MAINTENANCE - EMERGE	5,100	A-5	1983
9722-04	EMERGENCY GENERATOR BLDG.	352	A-4	1988
9722-05	MOTOR GENERATOR BLDG. (9949-57)	144	A-4	1987
9723-04	ELECTRICAL MAINTENANCE	10,700	A-1	
9723-14	ADMINISTRATIVE OFFICES	16,800	A-1	1954
9723-18	CHANGE HOUSE	15,900	A-1	1944
9723-19	CHANGE HOUSE	15,000	A-1	1944
9723-21	UTILITIES	4,600	A-1	1944
9723-24	LABORATORY DEVELOPMENT	12,122	A-1	1950
9723-25	ADMINISTRATIVE OFFICES	19,590	B-6	1949
9723-26	CHANGE HOUSE - SHOE EXCHANGE	96	A-5	1981
9723-27	CHANGE HOUSE	11,750	A-5	1989
9723-28	CHANGE HOUSE & EMERG. MEDICAL	10,000	A-5	1990
9723-31	CHANGE HOUSE	29,172	A-5	1991
9723-33	CHANGE HOUSE	12,740	A-5	1991
9724-00	RADIO BLDG. REPEATER STATION (CH)	240	A-5	1981
9724-02	RADIO REPEATER STATION (BUFFALO)	480	A-5	1988
9724-03	RADIO REPEATER STATION	187	A-4	1951
9724-05	TRANSMITTER RECEIVING STATION	87	A-4	
9725-00	COMPOSITE MANUFACTURING CENTER	6,000	A-5	1986
9727-03	UTILITIES	2,950	A-5	1955
9727-04	UTILITIES	1,750	A-5	1963
9727-04A	UTILITIES	960	A-3	1963
9728-00	LAUNDRY	13,600	A-1	1943
9729-00	STORES CO <sub>2</sub> SHIP., REC., DELIVERY	3,500	A-2	1943
9731-00	SITE PROGRAMS MAINTENANCE	37,300	B-1	1944
9732-01	GENERAL SHOPS	400	A-4	1944

TABLE A.4-2.—Y-12 Plant Facilities [Page 14 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9733-01	CATALOG LIBRARY	14,750	A-2	1951
9733-02	ENGINEERING DIVISION	13,200	A-1	1945
9733-03	ELECTRICAL ENGINEERING	11,400	A-1	1951
9736-00	ESTIMATING	7,800	B-2	1944
9737-00	ELECTRICAL	63,400	B-1	1960
9738-00	GENERAL SHOPS	8,750	A-2	1944
9739-00	PROJECT ENGINEERING	21,600	A-2	1947
9744-00	UTILITIES	8,400	A-2	1944
9752-00	UTILITIES	1,200	A-2	1944
9754-03	MOTOR VEHICLE SERVICE STA. (NEW)	312	A-3	
9755-00	CAR WASH BLDG.	100	A-5	1985
9755-00A	ADDITION TO CAR WASH BLDG.	1,250	A-5	
9764-00	OFFICES	4,450	A-1	1946
9766-00	OFFICES	35,450	A1	1944
9767-01	UTILITIES	3,500	A-2	1948
9767-04	UTILITIES	5,390	A-5	1962
9767-06	OFFICE BLDG.	7,500	B-3	1967
9767-08	CHILLER BLDG.	4,800	A-5	1984
9767-09	TRANSFORMER, SWITCHGEAR AND EM	211	A-4	1962
9767-10	CHILLER BLDG. (AREA 5 )	12,000	A-5	1989
9767-11	CHILLER BLDG. (DEV. 9202)	4,860	A-5	1986
9767-12	CHILLER BLDG. (9737)	3,000	A-5	1985
9767-13	CHILLER BLDG. (COMPRESSOR) WEST	20,460	A-5	1986
9769-00	ANALYTICAL LABORATORIES	19,520	B-1	1945
9769-00E	ANALYTICAL LAB ADDITION	11,736	B-5	1991
9770-03	LABORATORY STORAGE	242	A-2	1963
9770-08	PROCESS ANALYSIS -SAMPLING STA.	50	A-3	1970
9770-09	WASTE MONITORING STATION	75	A-4	1980
9771-00	MAIL ROOM	2,050	A-1	1945

TABLE A.4-2.—Y-12 Plant Facilities [Page 15 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9802-01	UTILITIES	166	A-4	1945
9802-02	UTILITIES	166	A-4	1955
9803-00	UTILITIES	176	A-4	1955
9804-00	UTILITIES	128	A-4	1955
9805-00	DEUTERIUM GAS STORAGE	1,850	A-3	1959
9805-01	DEUTERIUM PROD. FACILITY	6,895	A-5	1957
9808-00	PLANT MAINTENANCE	6,700	A-5	1956
9811-02	TANKER TRANSFER STA., TRIDENT II	1,875	A-8	1989
9811-03	TANKER TRANSFER STATION	1,800	A-5	1989
9811-04	TANKER TRANSFER STA., TRIDENT II	1,455	A-5	1989
9811-05	WASTE COOLANT FACILITY	4,800	CONC.	1990
9811-06	DRY ASH HANDLING FACILITY	1,518	B-5	1990
9811-07	WET ASH HANDLING FACILITY	5,900	A-8	
9811-09	SPILL CONTROL TRANSFER STATION	1,016	A-5	1988
9811-12	TRANSFORMER OIL RECYCLING FAC.	9,480	A-5	1997
9812-00	TANK PIT	1,500	A-5	1963
9813-00	AMMONIA STORAGE	1,300	A-5	1959
9814-00	TEAMSTER OFFICE	864	A-5	1945
9815-00	ORGANIC HANDLING FACILITY	1,020	A-1	1960
9816-00	FIRE DEPARTMENT	590	A-4	1962
9817-00	FIRE DEPARTMENT	2,700	A-5	1962
9817-01	SMOKE TRAINING FACILITY	800	A-4	1980
9817-02	FIRE TRAINING FACILITY	600	A-5	1990
9818-00	NITRIC ACID RECOVERY FACILITY	7,500	B-4	1976
9819-00	RECORDS STORAGE	805	A-5	1945
9820-00	ELECTRICAL STORAGE	384	A-5	1962
9821-01	EXPLOSIVE FORMING	120	A-5	1962
9821-02	EXPLOSIVE FORMING	60	A-5	1962
9821-03	EXPLOSIVE FORMING	1,600	A-5	1962

TABLE A.4-2.—Y-12 Plant Facilities [Page 16 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9821-04	FORMING COIL HOUSE	200	A-5	1964
9821-05	MAGAZINE BUNKER FOR EXPLOSIVE F	224	CONC. BLK	1985
9821-06	MAGAZINE BUNKER FOR EXPLOSIVE F	224	CONC. BLK.	1985
9822-00	SOLVENT SETTLING BASIN	620	CONC.	1958
9824-01	HIGH PRESSURE TEST CELL	800	A-4	1968
9824-02	HIGH PRESSURE TEST CELL	300	A-4	1968
9824-03	HIGH PRESSURE ACCUMULATOR BUNK	198	A-4	1974
9826-00	TRUCK SCALES	1,800	A-5	1987
9826-01	COMPUTER BLDG. FOR TRUCK SCALES	63	A-1/A-5	1987
9826-02	COMPUTER BLDG. FOR TRUCK SCALES	64	A-5	1986
9827-00	ROD BENDING SHOP\STORAGE	945	A-1	1945
9828-01	BAG FILTER SYSTEM	500	B-5	1973
9828-02	PROBE STATION	172	A-5	1973
9828-03	FILTER HOUSE	500	A-5	1973
9830-01	CAPCA OIL &SOIL STOR. VAULT- RUB	3,920	A-8	1989
9831-00	ELECTRICAL SHOP	16,900	A-5	1945
9929-01	OLD CARPENTER SHOP	15,000	A-1	1944
9949-01	POST 7 (NW 9202)	400	A-1	1967
9949-03	POST 12 (NW 9201-2)	96	A-5	1993
9949-04	POST 25 (TO 9207)	30	A-5	1978
9949-05	POST 2 (NORTH PORTAL)	80	A-5	1978
9949-06	POST 14 (CENTRAL PORTAL)	535	A-1/A-5	1945
9949-07	POST 9 (NORTH 9201-1)	142	A-1	1973
9949-17	POST 3 (AT 9213)	125	A-4	1985
9949-25	POST 44 ON TOWER	81	A-5	1988
9949-28	POST 28	60	A-5	1988
9949-30	POST 17 TEMP.	60	A-5	1980
9949-33	POST 24 (N 9204-01)	38	A-5	1983
9949-38	HARDENED GUARD BOOTH, EAST PORTAL	160	B-1/B-5	1987

TABLE A.4-2.—Y-12 Plant Facilities [Page 17 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9949-39	HARDENED GUARD POST 23A	40	A-5	1987
9949-40	POST 22B, GUARD BOOTH CHECK POINT	55	A-5	1987
9949-41	POST 22A, GUARD BOOTH CHECK POINT	40	A-5	1987
9949-42	POST 22, GUARD BOOTH CHECK POINT	40	A-5	1987
9949-45	POST 20, HARDENED GUARD POST	160	B-1/B-5	1987
9949-46	POST 20A, NON-HARDENED GUARD BOOTH	40	A-5	1987
9949-52	POST 13 (VENDOR'S ACCESS ENTRANCE)	234	A-2	1987
9949-55	POST 2	238	A-5	1985
9949-57	POST 38	49	B-5	1986
9949-61	POST 1	36	A-5	1988
9949-62	POST 1, ID CHECK BOOTH	98	A-5	1988
9949-65	POST 16	36	A-5	1988
9949-66	POST 16, ID CHECK BOOTH	98	A-5	1988
9949-67	POST 16, ID CHECK BOOTH	50	A-5	1988
9949-69	POST 14, ID CHECK BOOTH	98	A-5	1988
9949-70	POST 8, ID CHECK BOOTH	215	B-5	1988
9949-71	POST 8	60	A-5	1988
9949-72	POST 8	60	A-5	1988
9949-73	POST 8	50	A-5	1988
9949-74	POST 24, ID CHECK BOOTH	300	A-5	1988
9949-75	POST 24, ID CHECK BOOTH	50	A-5	1988
9949-76	POST 33, ID CHECK BOOTH	128	B-1/B-5	1988
9949-77	POST 33, ID CHECK BOOTH	50	A-5	1988
9949-78	POST 33, ID CHECK BOOTH	60	A-5	1988
9949-79	POST 17, ID CHECK BOOTH	45	A-5	1988
9949-80	POST 33, ID CHECK BOOTH	60	A-5	1988
9949-83	POST 33 EQUIPMENT BUILDING	420	C	
9959-00	STORES	4,525	A-3	1954
9959-01	ELECTRICAL STORAGE	170	A-3	1966

TABLE A.4-2.—Y-12 Plant Facilities [Page 18 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9959-02	STORES - CYLINDER STORAGE	2,265	A-3	1944
9959-03	CHEMICAL STORAGE	49	A-5	1966
9976-00	UTILITIES	3,100	WD. & TRN.	1955
9977-00	UTILITIES (NITROGEN STATION)	270	STL. & TRN.	1943
9977-01	UTILITIES (NITROGEN STATION)	750	STL. & TRN.	1964
9977-02	UTILITIES	2,700	CONC. & CONC. BLK.	1955
9980-00	FORMER PHYSICAL TESTING, X-RAY	5,900	B-2	1950
9981-00	UTILITIES PHYSICAL TESTING, X-RAY	13,020	B-2	1949
9983-00	RADCON ORGANIZATION	1,165	A-1	1944
9983-01	TRAINING	672	C	1976
9983-02	LUNCH ROOM	576	C	1969
9983-06	LUNCH ROOM	1,200	C	1969
9983-18	HP TRAILER	1,230	C	1972
9983-20	OFFICE		C	
9983-24	ELECTRICIANS TRAILER	420	C	1969
9983-28	OFFICES FOR MKF	600	C	1980
9983-29	RADIO BASE TRAILER	612	C	1969
9983-30	TECHNICAL INFORMATION OFFICE	1,344	C	1986
9983-31	OFFICES FOR EMCS	450	C	1969
9983-32	OFFICES	720	C	1987
99833-35	OFFICES	720	C	1986
9983-37	HEALTH PHYSICS	600	C	1986
9983-39	OFFICES	600	C	1986
9983-40	CHANGEHOUSE	1,440	C	1986
9983-43	OFFICES - ALLEGHENY ELEC., INC.	450	C	1986
9983-45	ELECTRICAL TRAILER	600	C	1986
9983-46	ELECTRICAL TRAILER	720	С	1986
9983-47	TRAILER (INACTIVE)	600	C	1984
9983-49	SURVEY/ENGINEERING TRAILER	420	С	1986

TABLE A.4-2.—Y-12 Plant Facilities [Page 19 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9983-55	OFFICE	2,160	С	1986
9983-58	ENVIRON. RESTORATION OFFICES	2,160	C	1986
9983-62	OFFICES	3,600	C	1990
9983-63	OFFICES	3,600	С	1990
9983-64	OFFICES	3,600	С	1990
9983-65	OFFICES	3,600	С	1990
9983-66	OFFICES - MECHANICAL ENGINEERING	2,160	C	1986
9983-68	CHANGEHOUSE	1,440	С	1986
9983-71	MODULAR OFFICE TRAILERS	3,600	С	1990
9983-72	MODULAR OFFICE TRAILERS	3,600	C	1990
9983-73	PROJECT ENGINEERING OFFICES	1,440	С	1977
9983-76	WEST BURIAL OR LANDFILL (WAS K-150)	720	С	1985
9983-77	WEST BURIAL OR LANDFILL (WAS K-150)	576	С	1976
9983-79	WEST LANDFILL OFFICE	576	С	1986
9983-81	OFFICES - CONSTRUCTION ENGINEER	1,344	С	1986
9983-82	ENGINEERING OFFICES	1,344	C	1986
9983-83	OFFICES	4,771	С	1973
9983-84	HP TRAILER	1,344	С	1986
9983-85	OFFICES, FIRE PROTECTION (WAS K-1550Q)	720	C	1973
9983-86	TRAINING CENTER	4,320	С	1986
9983-88	TRANSPORTATION SAFEGUARDS (W91	1,344	C	1969
9983-90	CONST. ENGR. OFFICE (WAS K-1550-M)	720	С	1986
9983-94	PHYSICAL THERAPY (S 9706-2)	2,160	C	1987
9983-97	ELECTRICAL TRAILER	600	С	1987
9983-99	CHANGEHOUSE	1,440	С	1986
9983-AD	ENGINEERING OFFICES	1,344	C	1986
9983-AF	ENGINEERING OFFICES	1,344	С	1986
9983-AJ	EQUIPMENT ROOM	630	C	1990

TABLE A.4-2.—Y-12 Plant Facilities [Page 20 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9983-AK	CLASSROOM ASSOC.	630	С	1990
9983-AL	OFFICES	280	С	1986
9983-AR	BREAK ROOM N. OF 9949-45	288	С	1992
9983-AS	BREAK ROOM SW OF 9825-2	288	С	1992
9983-AT	BREAK ROOM SW OF 9204-3	288	C	1992
9983-AV	STORES - HAZ. MATERIALS SA485	120	C	1992
9983-AW	RANGE EQUIPMENT STORES BLDG.	288	C	1992
9983-AZ	WTSD SAMPLING CREW TRAILER	363	C	1993
9983-BR	HEALTH PHYSICS	155	C	1993
9983-BZ	STORAGE BLDG.	240	C	1993
9983-CC	BOUNDARY CONTROL STATION #42	112	С	1993
9983-CD	BOUNDARY CONTROL STATION #23	120	С	1993
9983-CE	BOUNDARY CONTROL STATION #22	120	С	1993
9983-CF	BOUNDARY CONTROL STATION #9	120	С	1993
9983-CH	ENVIRONMENTAL 90 DAY YARD	840	С	1994
9983-CJ	TRAILER (INACTIVE)	200	С	1994
9983-CK	PERSONNEL FROM 9720-5	840	С	1994
9983-CL	OFFICE PERSONNEL	200	С	1994
9983-CM	TRAILER (INACTIVE)	224	С	1994
9983-CN	CONSTRUCTION SUPPORT	144	C	1994
9983-CR	CONSTRUCTION SUPPORT	128	C	1994
9983-CS	TRAILER (INACTIVE)	128	C	1994
9983-CT	ELECTRICAL CONSTRUCTION SUPPORT	192	С	1994
9983-CU	ELECTRICAL CONSTRUCTION SUPPORT	128	С	1994
9983-CV	FISHER EQIUPMENT TRAILER	360	С	1994
9983-CW	CONSTRUCTION SUPPORT	300	C	1994
9983-CX	ESCORT/VEHICLE DISPATCH OFFICE	200	C	1994
9983-CY	FIELD OFFICE	198	С	1994
9983-CZ	TRAILER (INACTIVE)	NACTIVE) 144 C		1994

TABLE A.4-2.—Y-12 Plant Facilities [Page 21 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9983-EB	HP SUPPORT TO CONST. ACTIVITIES	240	С	
9983-EE	FLAMMABLE LIQUID STORAGE	200	С	
9983-EF	CONSTRUCTION SUPPORT, WAREHOUSE	200	С	
9983-EG	TRAILER (INACTIVE)	288	С	
9983-EJ	OFFICE SPACE	720	C	
9983-EP	WAREHOUSE STORAGE SHED	216	C	
9983-EQ	WAREHOUSE STORAGE SHED	120	С	
9983-ER	TRAILER (INACTIVE)	120	C	
9983-ES	TRAILER (INACTIVE)	120	C	
9983-ET	TRAILER (INACTIVE)	120	C	
9983-EW	STORAGE	552	С	
9983-EY	RADCON TECH OFFICE	120	С	
9983-EZ	CONSTRUCTION SUPPORT, ELECTRICA	720	С	
9983-FA	CONSTRUCTION SUPPORT, ELECTRICA	240	С	
9983-FC	OFFICE SPACE	180	С	1996
9983-FD	OFFICE SPACE	1,307	С	1996
9983-FE	OFFICE SPACE	1,307	С	1996
9983-FF	OFFICE SPACE	1,307	С	1996
9983-FG	OFFICE SPACE	1,307	С	1996
9983-FH	CONSTRUCTION SUPPORT	120	C	1996
9983-FJ	OFFICE SPACE	480	C	1996
9983-FM	OFFICE SPACE	240	C	1996
9983-FN	OFFICE SPACE	240	C	1996
9983-FP	RESTROOMS	96	С	1996
9983-FQ	RESTROOMS	96	С	1996
9983-FR	RESTROOMS	96	C	1996
9983-FS	OFFICE SPACE	1,440	С	1996
9983-FT	OFFICE SPACE	660	С	1996
9983-FV	OFFICE SPACE	600 C		1998

TABLE A.4-2.—Y-12 Plant Facilities [Page 22 of 26]

9985-00 FIRE ALARM MONITOR STATION 71 A-5 1972 9987-00 INACTIVE RECORDS STORAGE 2,094 B-1 1943 9989-00 SO <sub>2</sub> MONITOR STATION (Y¢ 176240) 48 C 1973 9990-00 SO <sub>2</sub> MONITOR STATION 48 C 1973 9990-01 GAS PRESSURE REDUCING STATION 175 STL. & TRN. 1961 9990-03 COAL SAMPLING STATION 4,270 B-1 1980 9993-00 MAINTENANCE STORAGE 3,120 STL. & TRN. 1974 9995-00 PLANT LABORATORY 84,000 B-2 1952 9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 2,50 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 2,976 B-3 9999-08 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 3,004 B-2 ENATION POWER OPERATED 304 ENATION POWER OPERATED 304 ENATION POWER OPERATED 3,000 B-2 ENATION POWER OPERATED 3,000 B-2 ENATION POWER OPERATED 3,000 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 94616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9989-00 SO; MONITOR STATION (Y# 176240) 48 C 1973 9990-00 SO; MONITOR STATION 48 C 1973 9990-01 GAS PRESSURE REDUCING STATION 175 STL, & TRN. 1961 9990-03 COAL SAMPLING STATION 4,270 B-1 1989 9993-00 MAINTENANCE STORAGE 3,120 STL, & TRN. 1974 9995-00 PLANT LABORATORY 84,000 B-2 1952 9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 S33 Total DP W/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  Environmental Management (EM) Facilities  561,900 B-2 1945 9401-04 MAINT, FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9985-00	FIRE ALARM MONITOR STATION	71	A-5	1972
9990-00 SO, MONITOR STATION 48 C 1973 9990-01 GAS PRESSURE REDUCING STATION 175 STL. & TRN. 1961 9990-03 COAL SAMPLING STATION 4,270 B-1 1989 9993-00 MAINTENANCE STORAGE 3,120 STL. & TRN. 1974 9995-00 PLANT LABORATORY 84,000 B-2 1952 9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-00 MOTOR GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 2,976 B-3 9353 Total DP W/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  Environmental Management (EM) Facilities  Environmental Management (EM) Facilities  19201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9404-07 HS STORAGE PUMPHOUSE 3,000 A-5 1993 9424-02 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993	9987-00	INACTIVE RECORDS STORAGE	2,094	B-1	1943
9990-01 GAS PRESSURE REDUCING STATION 175 STL. & TRN. 1961 9990-03 COAL SAMPLING STATION 4,270 B-1 1989 9993-00 MAINTENANCE STORAGE 3,120 STL. & TRN. 1974 9995-00 PLANT LABORATORY 84,000 B-2 1952 9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993	9989-00	$\mathrm{SO}_2$ MONITOR STATION (Y# 176240)	48	C	1973
9990-03 COAL SAMPLING STATION 4,270 B-1 1989 9993-00 MAINTENANCE STORAGE 3,120 STL. & TRN. 1974 9995-00 PLANT LABORATORY 84,000 B-2 1952 9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993	9990-00	SO <sub>2</sub> MONITOR STATION	48	C	1973
9993-00 MAINTENANCE STORAGE 3,120 STL & TRN. 1974 9995-00 PLANT LABORATORY 84,000 B-2 1952 9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993	9990-01	GAS PRESSURE REDUCING STATION	175	STL. & TRN.	1961
9995-00 PLANT LABORATORY 84,000 B-2 1952 9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  Environmental Management (EM) Facilities  201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993	9990-03	COAL SAMPLING STATION	4,270	B-1	1989
9996-00 WEAPON MATERIAL MANAGEMENT ESO 33,501 B-3 1955 9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP S,488,439  Environmental Management (EM) Facilities  Environmental Maint. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9993-00	MAINTENANCE STORAGE	3,120	STL. & TRN.	1974
9998-00 H-1 FOUNDRY 137,100 B-3 1949 9999-00 MOTOR GENERATOR (W9212) 515 A-4 1955 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP  Environmental Management (EM) Facilities  Environmental Maint. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9995-00	PLANT LABORATORY	84,000	B-2	1952
9999-00 MOTOR GENERATOR (W9212) 515 A-4 1985 9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993	9996-00	WEAPON MATERIAL MANAGEMENT ESO	33,501	B-3	1955
9999-05 EMERGENCY GENERATOR BLDG. 250 A-4 1986 9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9998-00	H-1 FOUNDRY	137,100	B-3	1949
9999-06 ELECTRICAL SWITCHGEAR BLDG. 2,976 B-3 9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9999-00	MOTOR GENERATOR (W9212)	515	A-4	1955
9999-07 EMERGENCY GENERATOR BLDG. 250 A-4 1986 K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2 K-741A POWER OPERATED 304 533 Total DP w/Continuing mission 4,412,496 620 Total DP Environmental Management (EM) Facilities  P201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9999-05	EMERGENCY GENERATOR BLDG.	250	A-4	1986
K-1650-00 CENTRAL CONTROL FACILITY 21,120 B-2  K-741A POWER OPERATED 304  533 Total DP w/Continuing mission 4,412,496  620 Total DP 5,488,439  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945  9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984  9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987  9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944  9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993  9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993  9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9999-06	ELECTRICAL SWITCHGEAR BLDG.	2,976	B-3	
K-741A POWER OPERATED 304  533 Total DP w/Continuing mission 4,412,496 620 Total DP 5,488,439  Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9999-07	EMERGENCY GENERATOR BLDG.	250	A-4	1986
533 Total DP w/Continuing mission       4,412,496         620 Total DP       5,488,439         Environmental Management (EM) Facilities         9201-04       ALPHA 4 (OUT OF SERVICE)       561,900       B-2       1945         9401-04       MAINT. FREE ISSUE FAC INTERIM LLW       3,600       A-5       1984         9401-05       URANIUM CHIP OXIDIZERS       3,750       A-5       1987         9404-07       HS STORAGE PUMPHOUSE       3,000       A-2       1944         9424-01       FOAM HOUSE FOR OD-9 (FP)       350       A-5       1993         9424-02       FOAM HOUSE FOR OD-10 (FP)       400       A-5       1993         9616-06       LIQUID WASTE FACILITY       2,600       A-5       1989	K-1650-00	CENTRAL CONTROL FACILITY	21,120	B-2	
Environmental Management (EM) Facilities  9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	K-741A	POWER OPERATED	304		
Environmental Management (EM) Facilities         9201-04       ALPHA 4 (OUT OF SERVICE)       561,900       B-2       1945         9401-04       MAINT. FREE ISSUE FAC INTERIM LLW       3,600       A-5       1984         9401-05       URANIUM CHIP OXIDIZERS       3,750       A-5       1987         9404-07       HS STORAGE PUMPHOUSE       3,000       A-2       1944         9424-01       FOAM HOUSE FOR OD-9 (FP)       350       A-5       1993         9424-02       FOAM HOUSE FOR OD-10 (FP)       400       A-5       1993         9616-06       LIQUID WASTE FACILITY       2,600       A-5       1989	533 Total DP	w/Continuing mission	4,412,496		
9201-04 ALPHA 4 (OUT OF SERVICE) 561,900 B-2 1945 9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	620 Total DP		5,488,439		
9401-04 MAINT. FREE ISSUE FAC INTERIM LLW 3,600 A-5 1984 9401-05 URANIUM CHIP OXIDIZERS 3,750 A-5 1987 9404-07 HS STORAGE PUMPHOUSE 3,000 A-2 1944 9424-01 FOAM HOUSE FOR OD-9 (FP) 350 A-5 1993 9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	Environmenta	ll Management (EM) Facilities			
9401-05       URANIUM CHIP OXIDIZERS       3,750       A-5       1987         9404-07       HS STORAGE PUMPHOUSE       3,000       A-2       1944         9424-01       FOAM HOUSE FOR OD-9 (FP)       350       A-5       1993         9424-02       FOAM HOUSE FOR OD-10 (FP)       400       A-5       1993         9616-06       LIQUID WASTE FACILITY       2,600       A-5       1989	9201-04	ALPHA 4 (OUT OF SERVICE)	561,900	B-2	1945
9404-07       HS STORAGE PUMPHOUSE       3,000       A-2       1944         9424-01       FOAM HOUSE FOR OD-9 (FP)       350       A-5       1993         9424-02       FOAM HOUSE FOR OD-10 (FP)       400       A-5       1993         9616-06       LIQUID WASTE FACILITY       2,600       A-5       1989	9401-04	MAINT. FREE ISSUE FAC INTERIM LLW	3,600	A-5	1984
9424-01       FOAM HOUSE FOR OD-9 (FP)       350       A-5       1993         9424-02       FOAM HOUSE FOR OD-10 (FP)       400       A-5       1993         9616-06       LIQUID WASTE FACILITY       2,600       A-5       1989	9401-05	URANIUM CHIP OXIDIZERS	3,750	A-5	1987
9424-02 FOAM HOUSE FOR OD-10 (FP) 400 A-5 1993 9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9404-07	HS STORAGE PUMPHOUSE	3,000	A-2	1944
9616-06 LIQUID WASTE FACILITY 2,600 A-5 1989	9424-01	FOAM HOUSE FOR OD-9 (FP)	350	A-5	1993
	9424-02	FOAM HOUSE FOR OD-10 (FP)	400	A-5	1993
9616-07 WEST ENVIRONMENTAL PROJECT 24,554 B-5 1985	9616-06	LIQUID WASTE FACILITY	2,600	A-5	1989
	9616-07	WEST ENVIRONMENTAL PROJECT	24,554 B-5		

TABLE A.4-2.—Y-12 Plant Facilities [Page 23 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built	
9616-08	FILTER TREATMENT FACILITY	1,125 A-5			
9616-11	LEACHATE TREATMENT FACILITY	4,805	A-5	1989	
9623-00	CENTRAL POLLUTION CONTROL FACILITY	20,000	B-3	1985	
9624-00	ENVIRONMENTAL SUPPORT FACILITY	37,200	A-5	1992	
9704-01	OFFICES, COMPUTER ROOM & UTILITIES	8,700	A-1	1952	
9720-09	RCRA	12,500	A-5	1955	
9720-25	STORES	17,600	A-4	1962	
9720-31	RCRA - MIXED STORAGE BLDG	6,571	A-4	1986	
9720-32	NDA FACILITY	30,977	A-3	1970	
9720-41	PROCESS STORAGE BLDG.	3,306	A-5	1988	
9720-44	SLUDGE HANDLING FACILITY	4,900	A-5	1986	
9720-45	LIQUID ORGANIC WASTE FACILITY	2,250	A-5	1987	
9720-58	TRANSFORMER STORAGE AREA (PCB)	4,200	A-5	1987	
9720-59	PRODUCTION WASTE STORAGE FACILITY	15,105	A-5		
9722-00	OFFICE, BREAKROOM	1,000	A-5	1987	
9809-01	URANIUM OXIDE STORAGE SHED	1,200	A-3	1990	
9811-01	WASTE OIL STORAGE	4,875	4,875 A-5		
9811-08	TRANSFER STA. (OIL DISPOSAL, OD-9)	874	A-5	1986	
9825-01	UNDERGROUND VAULT (CONCRETE)	1,600	CONC.	1984	
9825-02	UNDERGROUND VAULT (CONCRETE)	1,600	CONC.	1984	
9830-02	STORAGE PAD FACILITY - RUBB	7,172	A-8	1993	
9830-03	STORAGE PAD FACILITY - RUBB	7,172	A-8	1993	
9830-04	STORAGE PAD FACILITY - RUBB	7,172	A-8	1993	
9830-05	STORAGE PAD FACILITY - RUBB	7,172	A-8	1993	
9830-06	STORAGE PAD FACILITY - RUBB	7,172	A-8	1993	
9830-07	STORAGE PAD FACILITY - RUBB	7,172	A-8	1993	
9840-04	DRUM CLEANING STATION (OD10)	312	A-5	1993	
9983-44	OFFICES (SANITARY LANDFILL NO. 2)	336	С		
9983-67	ENVIRON. RESTORATION OFFICES	2,160	С	1986	

TABLE A.4-2.—Y-12 Plant Facilities [Page 24 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9983-74	OFFICES IN SALVAGE YARD (WAS K-15)	720	С	1986
9983-78	OFFICE TRAILER FOR WASTE COOLING	200	С	1986
9983-93	ENGINEERING OFFICES	624	С	1986
9983-BC	INGRESS & EGRESS BLDG. TF#2	118	C	1993
9983-BD	TRUCK DRIVER'S WAITING AREA	294	С	1993
9983-BE	TANK FARM OFFICE	294	С	1993
9983-BF	INGRESS & EGRESS BLDG. TF#1	118	С	1993
9983-BG	CARPENTER'S SHOP	294	C	1993
9983-BH	SAW SHOP	294	C	1993
9983-BJ	METAL SHED - STORAGE	396	С	1993
9983-BK	INSULATOR SHOP	384	C	1993
9983-BL	LUNCH ROOM	288	C	1993
9983-BM	INGRESS & EGRESS BLDG. TF#3	121	C	1993
9983-BN	WEST END TRAINING CENTER	1,043	C	1993
9983-BP	LAUNDRY	245	C	1993
9983-BQ	FOREMAN'S OFFICE	247	C	1993
9983-BS	STORAGE SHED	307	C	1993
9983-BT	MAINT. PLANNER/COORD. OFFICE	245	C	1993
9983-BU	GENERAL FOREMAN'S OFFICE	245	C	1993
9983-BV	FOREMAN'S OFFICE	245	C	1993
9983-BW	MAINTENANCE SUPPLY BLDG.	290	C	1993
9983-BX	LUNCH ROOM	288	C	1993
9983-BY	INGRESS & EGRESS BLDG. TF#4	124	C	1993
9983-CA	OFFICE TRAILER	240	C	1993
9983-CB	BOUNDARY CONTROL STATION	216	C	1993
9983-CG	WTSD SAMPLING CREW TRAILER	150	C	1993
9983-CQ	WTSD SAMPLING CREW TRAILER	198	С	1994
9983-EX	OFFICE FOR TECH	120	C	
9983-FK	RESTROOMS	96	С	1996

TABLE A.4-2.—Y-12 Plant Facilities [Page 25 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built	
9983-FL	OFFICE SPACE	240	С	1996	
	67 Total EM Facilities	835,066			
Energy Resea	rch (ER) Facilities				
9102-01	OFFICE BLDG.	6,250	A-4	1964	
9102-02	OFFICE BLDG.	6,200	B-3	1976	
9105-00	OFFICE BLDG.	7,400	B-3	1977	
9108-00	TECHNICAL STAFF OFFICES - ET	7,510	A-3	1981	
9201-02	SITE PROGRAMS MAINTENANCE	257,200	B-1	1944	
9201-03	SITE PROGRAMS MAINTENANCE	187,300	B-1	1944	
9204-01	ENGINEERING	196,700	B-1	1944	
9204-03	PU LAB	216,200	B-3	1945	
9207-00	LAB/OFFICE	247,500	B-3	1945	
9210-00	UTILITIES	65,700	B-3	1945	
9211-00	UTILITIES	76,600	B-3	1945	
9220-00	UTILITIES	22,350 A-3		1967	
9224-00	CELL FRACTIONATION SYSTEMS	10,100	A-3	1968	
9401-01	ENGINE TEST CELLS	12,000	A-4	1945	
9404-04	PUMPHOUSE	5,500	A-2	1947	
9409-04	COOLING TOWER FOR 9201-2	7,650	WOOD	1945	
9422-00	HELIUM COMPRESSOR BLDG.	2,500	A-5	1980	
9610-02	FLAMMABLE MATERIALS STORAGE	683	A-4	1990	
9610-03	FLAMMABLE MATERIALS STORAGE	512	A-4	1990	
9720-39	COLD STORAGE BLDG.	8,000	A-5	1984	
9735-00	LAB	15,100	B-2	1944	
9743-2	ANIMAL QUARTERS	22,000	A-2	1949	
9770-02	RADIATION SOURCE	155	A-2	1945	

TABLE A.4-2.—Y-12 Plant Facilities [Page 26 of 26]

Building Number	Description and/or Use	Gross Floor Area (ft²)	Construction Type <sup>a</sup>	Year Built
9983-16	ANIMAL RADIATION-FAC. CONTROL	100	С	1972
9983-17	CONTROL SOURCE & EXPOSURE ROOM	720	С	1972
9999-01	MOTOR GENERATOR (E 9204-3)	500	A-1	1986
9999-03	ELECTRICAL SWITCHGEAR & RECTIFIER	2,400	A-5	1978
9999-04	ELECTRICAL EQUIPMENT	300	A-5	1979
	28 Total ER Facilities	1,385,130		
	620 BLDG. Total DP	5,488,439		
	67 BLDG. Total EM	835,066		
	28 BLDG. Total ER	1,385,130		
	715 TOTAL BLDG. Total Y-12 Plant	7,708,635		

Note: 9983-XX number denotes the facility is a trailer.

#### A. Single-story building with

- 1. Wood frame
- 2. Masonry bearing walls with wood roof framing
- 3. Masonry bearing walls with structural steel roof system.
- 4. Masonry bearing walls with precast concrete roof system
- 5. Prefabricated metal building with metal wall panels
- 6. Prefabricated metal building with masonry walls
- 7. Precast concrete wall panels with concrete roof system
- 8. Concrete basin with pre-engineered structure (metal and polyester)

### B. Multi-story building with

- 1. Reinforced concrete structure with masonry walls
- 2. Reinforced concrete and structural steel with masonry walls
- 3. Structural steel skeleton with masonry walls
- 4. Structural steel skeleton with cement-asbestos wall panels
- 5. Structural steel skeleton with metal panels
- 6. Wood frame

#### C. Prefabricated portable structure

Note: In general, all wood frame buildings with wood framing have asphalt shingle roof coverings, prefabricated buildings have metal panels, and all others have built-up roofs.

Source: SPAS 1999.

<sup>&</sup>lt;sup>a</sup> Construction Type Legend

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